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the
University of Nebraska

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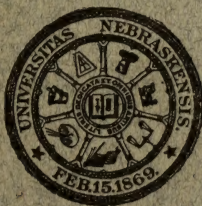
Series XVIII

Number 10

Bulletin of The University of Nebraska

FORTY-THIRD ANNUAL GENERAL CATALOG

CONTAINING
THE COMPLETE RECORD FOR 1912-1913
ANNOUNCEMENTS FOR 1913-1914



Published by the University in June, 1913. Entered at the Post-Office at Lincoln, Nebraska, as second-class matter under Act of Congress July 16, 1894. The Bulletin of the University of Nebraska is published semi-weekly during the month of April, and monthly in May, June, August and November of each year. One number each is issued of the General Catalog, College of Agriculture, the College of Engineering, the College of Law, the College of Medicine, the Summer Session, and the Schools of Agriculture, Commerce, Fine Arts, and Pharmacy. A separate catalog of the Graduate, Arts and Sciences, and Teachers Colleges is also published. On request, any of these are furnished by the Registrar, Station A, Lincoln, Nebraska.

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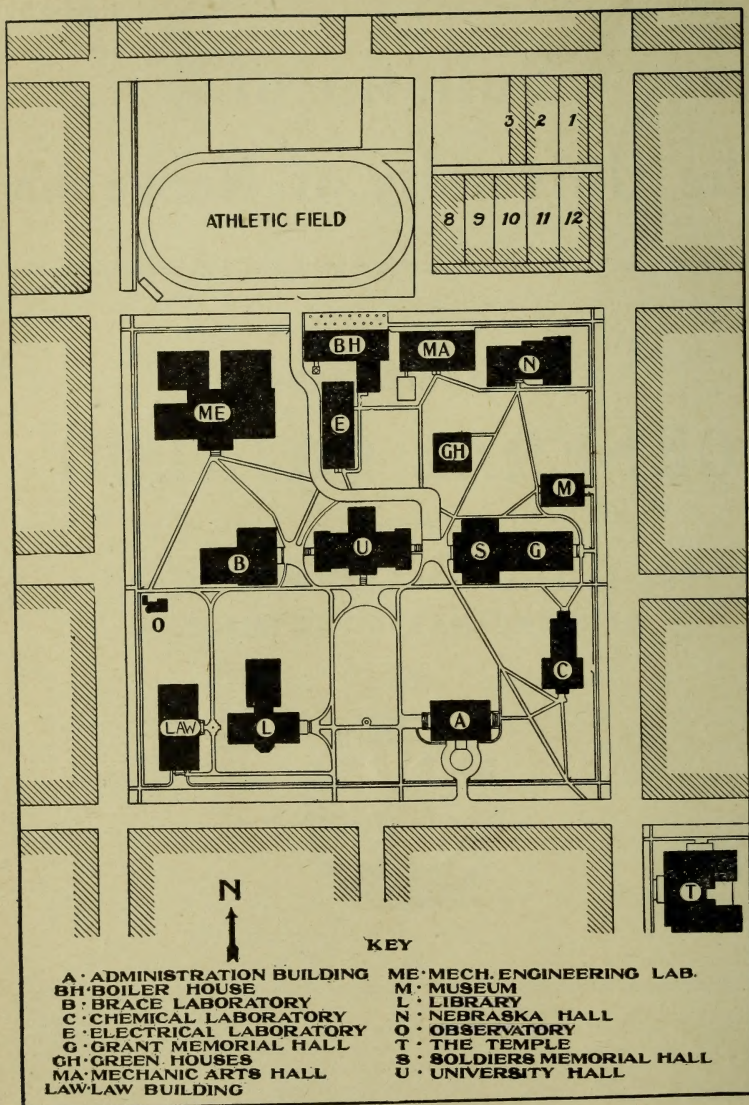
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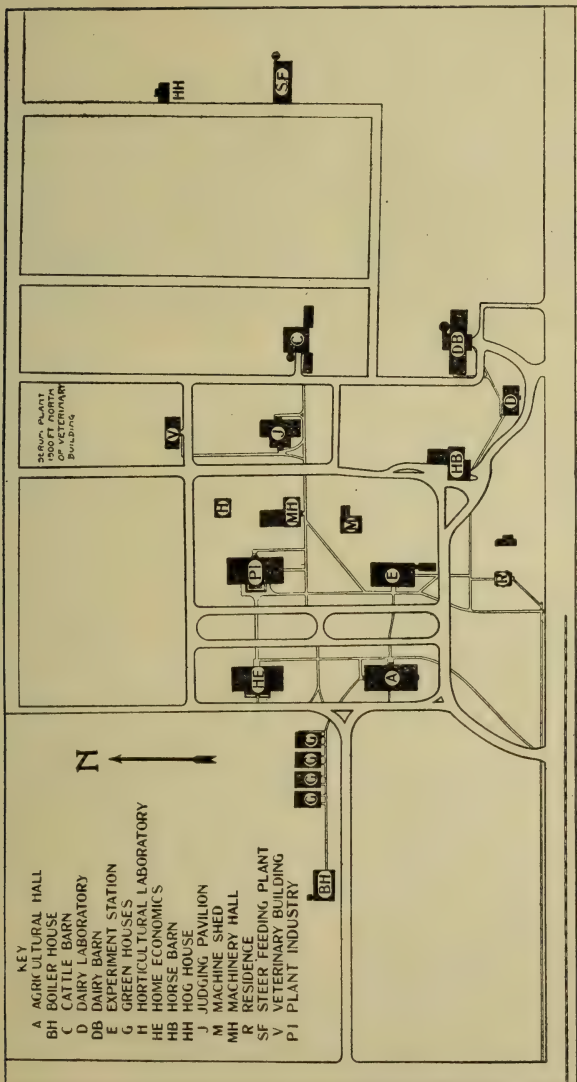


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1913



THE UNIVERSITY CAMPUS IN THE CITY



THE UNIVERSITY OF NEBRASKA FARM CAMPUS.

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1913

SEPTEMBER

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NOVEMBER

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1913

Sept. 17-20 Registration, first semester.
 Nov. 26-Nov. 29 Thanksgiving Recess.
 Dec. 23-Jan. 3 Christmas Recess

1914

Jan. 28-31 Registration, second semester.
 Feb. 15 Charter Day.
 Mar. 16-21 Spring Recess.
 May 30 Decoration Day.
 June 7-11 Forty-third Annual Commencement.

CALENDAR FOR 1913-1914 OF ALL COLLEGES AND SCHOOLS

1913

September 9	Tuesday	College of Medicine registration at Omaha.
September 10	Wednesday	College of Medicine, lectures begin at Omaha.
September 15-20	Monday-Saturday	University entrance examinations.
September 17-20	Wednesday-Sat.	Registration, first semester.
September 18-20	Thursday-Saturday	Registration, first semester, Lincoln Dental College (associated with the University).
September 20	Saturday, 8 p. m.	University reception to all students.
September 23	Tuesday, 11 a. m.	Opening address, the Chancellor.
October 13	Monday	Agricultural High School, first semester begins.
November 15	Saturday	Annual Dramatic Club play.
November 26	Wednesday, 12 m.	Thanksgiving recess begins.
November 29	Saturday, 12 m.	Thanksgiving recess ends.
December 5	Friday	Debate or Cornhusker banquet.
December 9	Tuesday	Regular Meeting of the Board of Regents (first Tuesday after the first Wednesday in December).
December 12	Friday	Debate or Cornhusker banquet.
December 23	Tuesday, 6 p. m.	Christmas vacation begins.

1914

January 3	Saturday, 12 m.	Christmas vacation ends.
January 5	Monday	Agricultural High School, winter course begins.
Jan. 26-31	Monday-Saturday	Entrance examinations.
Jan. 28-31	Wednesday-Sat.	Registration, second semester.
Jan. 29-31	Thursday-Saturday	Registration begins, second semester, Lincoln Dental College (associated with the University).
January 26	Monday	Agricultural High School, second semester begins.
February 2	Monday	Second semester classes begin.
February 14	Saturday, 8 p. m.	Annual Address before the Sigma Xi Society.
February 15	Sunday	Charter Day.

THE UNIVERSITY OF NEBRASKA

February 16	Monday	A holiday. Regular meeting of the Board of Regents. Eighteenth Annual Mid-Winter Commencement.
March 16	Monday, 8 a. m.	Spring recess begins.
March 21	Saturday, 12 m.	Spring recess ends.
April 7	Tuesday	Regular meeting of the Board of Regents (the first Tuesday after the first Wednesday in April).
April 22	Wednesday	Agricultural High School, Principal's reception.
April 24	Friday	Agricultural High School Commencement.
May 21	Thursday	College of Medicine Commencement.
May 30	Saturday	Decoration Day. A holiday.
June 5	Friday	Teachers College High School Commencement.
June 8	Monday, 4 p. m.	Final recommendation by faculties for degrees.
June 9	Tuesday, 6 p. m.	Second semester class-work ends.

Commencement Week, 1914.

June 7	Sunday	Baccalaureate Sermon.
June 9	Tuesday	Annual meeting Board of Regents.
June 10	Wednesday	Alumni Day.
	9 a. m.—2 p. m.	Class reunions and dinners.
	4 p. m.	Business meeting and Alumni address. Agricultural Hall.
	5 to 7 p. m.	Alumni Banquet. The University Farm.
	9 p. m.	Alumni Cotillion. The Temple.
June 11	Thursday	Forty-third Annual Commencement.
	10 a. m.	Commencement procession.
	10:30 a. m.	Oration and conferring of degrees.
	8 p. m.	Chancellor's reception.
June 12	Friday	Registration, Summer Session.
September 8	Tuesday	College of Medicine registration at Omaha.
September 16	Wednesday	First semester begins (1914-1915).

General Information Concerning the University

THE UNIVERSITY

Colleges and Schools of the University. By statute, the University of Nebraska comprises the following colleges and schools:

The Graduate College

The College of Arts and Sciences, including the Schools of Fine Arts and Commerce

The Teachers College, including the Teachers College High School

The College of Engineering

The College of Agriculture, including the Schools of Agriculture

The College of Law

The College of Medicine,* including the School of Pharmacy

Information as to the object and work of each of these colleges may be found by consulting the portion of the catalog devoted to each (see general index).

In addition to the foregoing, the University Board of Regents is, by law, the governing board for the Nebraska Agricultural Experiment Station, and of the Experimental Substations at North Platte, Culbertson, Valentine and Scottsbluff; it has entrusted to its care the superintendency of Farmers' Institutes; and the state has created a bureau for the study of Plant Diseases and Destructive Insects with the professors of Agricultural Botany and of Entomology respectively in charge as State Agricultural Botanist and State Entomologist.

Public Service Activities of the University. The University is closely related to most lines of state development, several professors being connected with various surveys, commissions and other state activities. The survey and statistical department of the state are under the advisory au-

* The Lincoln Dental College has a contract with the University under which its students matriculate as University students for the purpose of instruction in the sciences.

thority of the Nebraska Conservation and Public Welfare Commission, composed of John H. Morehead, Governor; Samuel Avery, Chancellor of the University; G. E. Condra, Director of the Nebraska Conservation and Soil Survey; W. R. Mellor, Secretary of the State Board of Agriculture; A. E. Sheldon, Director of the Legislative Reference Bureau.

The Nebraska Conservation and Soil Survey, the State Geological Survey, and the State Botanical Survey are under the control of the Board of Regents and directed by University professors. The Conservation and Soil Survey studies and reports upon the natural resources, including water, forest, soil and road materials. It also makes studies of selected industries and industrial problems. The Geological Survey co-operates with the Federal Government in geological work and topographic mapping. The Botanical Survey is in charge of special plant studies and plant diseases.

The Farmers' Institutes, the State Entomological work, the distribution of hog cholera serum, and a number of other similar functions are directed from the University.

The State Legislative Reference Bureau is housed on the campus and is closely connected with the work of several state commissions. University professors are members of the State Tax Commission, the Minimum Wage Commission, the Commission for revising the School Laws of the state, the Advisory State Highway Commission, and the Water Power Commission.

Practically every department is in touch with the educational, administrative and executive activities of the state. The State High School Inspector is a member of the faculty. University extension courses are directed from both campuses. Many professors and administrative officers lecture in the state on topics related to their work and department.

The public service activities of the University bring the professors into close contact with state development and give opportunity for advanced students to carry on special investigations, under the direction of the University.

The state legislature of 1911 made provision for a second school of Agriculture, under the management of the Board of Regents, to be situated at Curtis. The legislature of 1913 appropriated funds for equipping and maintaining the school and arrangements are under way to open the school in September, 1913.

Equipment of the University. The grounds and buildings of the University are distributed among three groups: (1) the original campus, situated in the capital city of Lincoln, with its main entrance at Eleventh and R streets, and containing seventeen buildings devoted to academic, law,

medicine, and engineering instruction; (2) the University Farm, of three hundred and twenty acres, two and a half miles northeast of the original campus, containing ten buildings devoted to instruction in agriculture, home economics, and forestry; (3) the Medical College building in Omaha, at the corner of Twelfth and Pacific streets. For the latter, a new site has recently been secured in the city of Omaha, and lies between Howard and Jackson, and Thirty-ninth and Fortieth streets. Adjacent to this campus and on land belonging to the state is the new Child-Saving Institute, the clinical facilities in which are under the control of the University. The legislature of 1911 appropriated \$100,000 to be used for building purposes. The first building is now in the process of construction and will be ready for use in 1913-14. The various libraries, laboratories, museums and collections of the University, available for use by students of the University, are described in those portions of the catalog devoted to the colleges or schools with whose work they are chiefly connected.

Government of the University. The chancellor, chosen by the board of regents, is the chief executive officer of the University; subject to the rules and orders of the board he has both pedagogical and business supervision over the University as a whole, over the various colleges, and over all the affairs and interests of the University. For each of the colleges within the University the board of regents elects a dean, to be the presiding officer of the faculty of his college and to perform such other duties as the board or the faculty of his college may require. The faculty of each college, subject to the chancellor and the board, determines upon all matters relative to the internal affairs of its college. A University senate, corresponding to the "general faculty" of other universities, and subject to the chancellor and board, determines questions which concern more than one college or the University as a whole. The chancellor, deans, heads and acting heads of departments, and such other members of staff as the Regents may name are voting members of the senate.

Revenues of the University. By an amendment in 1899 of the original act of incorporation (1869), a tax of one mill upon the grand assessment roll of the state is provided for the support of the University. Added to this are incomes from land leases and sales under the land-grant act of Congress of 1862 for the benefit of the Industrial College,* and under the

* In 1909, the Industrial college was erected into the colleges of Agriculture and Engineering by the state legislature; the same legislature authorized the creation of the Graduate college and the Teachers college.

enabling act reserving seventy-two sections of land for the State University; interest on permanent fund investments; and the money grant by the act of Congress, commonly known as the Morrill Act, August, 1890, and by the Hatch Fund Act of 1887, and the Adams Act of 1906 supplemental thereto. In addition to this are the fees paid by students for various purposes. The state legislature of 1913 appropriated a three-fourths mill levy for six years for permanent development of the University, leaving the location to be determined by a vote of the people at the general election in 1914.

History of the University. The University of Nebraska was founded by an act of the Nebraska legislature, effective February 15, 1869. The subsequent new constitution of 1875 recognized the University as thus established, placed it under the general control of an elective board of six regents, and made certain fundamental provisions as to its organization and administration. The next legislature (1877) revised the act of 1869 in accordance with the provisions of the new constitution. Under this revised act (Compiled Statutes of Nebraska, Chapter 87), as slightly amended by the legislature of 1909,* the University is at present organized and operating.

* See foot-note on page 9

THE BOARD OF REGENTS

HON. CHARLES BARNEY ANDERSON.....	Lincoln
Term expires January, 1914.	
HON. GEORGE COUPLAND	Elgin
Term expires January, 1914.	
HON. CHARLES SUMNER ALLEN, President.....	Lincoln
Term expires January, 1916.	
HON. WILLIAM GUNN WHITMORE.....	Valley
Term expires January, 1916.	
HON. FRANK LOUIS HALLER.....	Omaha
Term expires January, 1918.	
HON. VICTOR GERALD LYFORD.....	Falls City
Term expires January, 1918.	

Committees of the Board of Regents.

Executive—Messrs. Allen, Lyford, Haller.

Finance—Messrs. Lyford, Anderson, Haller.

Property—Messrs. Whitmore, Lyford, Coupland.

Industrial Education—Messrs. Coupland, Whitmore, Anderson.

ADMINISTRATIVE AND EXECUTIVE OFFICERS OF THE UNIVERSITY

- SAMUEL AVERY, Ph. D., LL. D., Chancellor and President of the University Senate. Administration Hall 101.
- ELISHA BENJAMIN ANDREWS, Ph. D., D. D., LL. D., Chancellor Emeritus.
- JAMES STUART DALES, M. Ph., Secretary of the Board of Regents and of the University Senate. Administration Hall 102.
- MAX WESTERMANN, Assistant Secretary of the Board of Regents. Administration Hall 102.
- EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher. Administration Hall 103.
- CHARLES EDMUND CHOWINS, M. E., Superintendent of Buildings, Grounds and Construction. Administration Hall 208.
- ALBERT ALISON REED, A. M., Inspector of Accredited Schools. Administration Hall 203.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women. Administration Hall 104.
- MABEL DUNN, M. D., Consulting and Examining Physician for Women.
- SENATOR WILLIS PERIN, Superintendent of the University Farm.
- WILLIAM PATTON SNYDER, M. S., Superintendent Experimental Substation at North Platte.
- JAMES COWAN, M. M. E., Superintendent of Experimental Substation at Valentine.
- FRITZ KNORR, B. Sc., Superintendent of Experimental Substation at Scottsbluff.
- WILLIAM HILL DUNMAN, Landscape Gardener.
- HARLAN ALFRED EVANS, Purchasing Agent.
- ALLEN REED BEACH, Chief Clerk at the University Farm.
- WILLIAM WARNER MARSHALL, Executive Clerk of Nebraska Experiment station.
- JOHN GREEN, Engineer of Heating and Power Plant.

- EDWARD EMIL ANDERSON, B. Sc., Assistant Superintendent of Construction.
- WILLIAM WARD VOTAW, Assistant Superintendent in charge of Grounds, Buildings and Janitors.
- ADOLPH MAX VOSS, A. B., Assistant Inspector of Accredited Schools.
- VANCIL KELSO GREER, LL. B., Assistant Registrar.
- FREDERICK ADDISON HOSFORD, Electrician.
- LULU MENLOVE, Head of Stenographic Bureau.
- MAUDE RENNIE ORD, Secretary to the Chancellor.
- FLORENCE IRWIN MCGAHEY, A. B., Assistant Registrar.
- MAUD ALICE CHEUVRONT, Secretary to Principal, Agricultural High School.
- JULIET MITCHELL VORE, Assistant in Registrar's Office.
- JOHN RICHARD MEYER, Assistant in Registrar's Office.
- RUBY MAUDE SHIDNER, Stenographer, Registrar's Office.
- LEO JOSEPH LOGAN, Chief Clerk, Secretary's Office.
- TERRY ARTHUR WILLIAMS, Voucher Clerk, Secretary's Office.
- CHARLES RAYMOND WARREN, Assistant in Secretary's Office.
- CLYDE LEROY OLLIS, Assistant in Purchasing Agent's Office.
- ANAN RICHARD RAYMOND, A. B., Assistant in Chancellor's Office.
- EUNICE WILLIS, Assistant in Stenographic Bureau.
- HARRY M. MILLER, Assistant in Purchasing Agent's Office.
- BESSIE ENYEART THOMPSON, Secretary to Inspector of Accredited Schools.
- MARY ANNETTE ANDERSON, B. D., Secretary in Teachers Bureau.

Of the Colleges

- CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Dean.
- LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College.
- ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences.
- EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture, Director of Nebraska Experiment Stations.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law.

OSCAR VAN PELT STOUT, C. E., Dean of the College of Engineering.

WILLSON ORTON BRIDGES, M. D., Dean of the College of Medicine.
(Omaha.)

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College
of Medicine. (Lincoln.)

Of the Schools

HARRY ELWYN BRADFORD, A. B., Principal of the Agricultural High
School.

JAMES EDWARD LE ROSSIGNOL, Ph. D., Director of the School of
Commerce.

PAUL HENRY GRUMMANN, A. M., Director of the School of Fine Arts.

RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of
Pharmacy.

CHARLES WILLIAM TAYLOR, A. B., Principal of the Teachers College
High School.

JULIA EMMELINE LOUGHRIDGE, A. B., Assistant Principal of the
Agricultural High School.

Of the Library

* WALTER KENDALL JEWETT, A. B., M. D., Librarian.

NELLIE JANE COMPTON, A. B., Assistant Librarian, in charge of
Library.

CLARA CRAIG, A. B., Reference Librarian.

SOPHIA JOSEPHINE LAMMERS, A. B., Cataloger in Library.

MARGUERITA FLORENCE HAWLEY, A. B., Cataloger in Library.

JESSIE JUNE GLASS, A. B., Library Assistant.

ADELAIDE C. ROOD, Library Assistant.

HARRIET WILSON, A. B., Library Assistant.

EDNA CLARA NOBLE, B. L., Library Assistant.

MABELLE BENTON BEATTIE, A. M., Library Assistant.

* Deceased.

ALTA M. KATES, Library Assistant.

GRACE ROOD, Library Assistant.

SARAH EDITH AYRES, Library Assistant.

Of the Museum

ERWIN HINCKLEY BARBOUR, Ph. D., Curator of the University Museum.

CARRIE ADELINE BARBOUR, B. Sc., Assistant Curator of the University Museum.

RAYMOND JOHN POOL, A. M., Curator of the Herbarium.

Of the Gymnasium

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Director of the Men's Gymnasium.

INA ESTELLE GITTINGS, A. B., Director of the Women's Gymnasium.

EWALD ORTWIN STIEHM, A. B., Director of Athletics.

GUY EUCLID REED, A. B., Assistant Manager and Assistant Director of Athletics.

THE UNIVERSITY SENATE

Officers

President, Samuel Avery, Ph. D., LL. D., Chancellor of the University.
 Secretary, James Stuart Dales, M. Ph., Secretary of the Board of Regents.

Members

Deans Bessey, Bridges, Burnett, Davis, Fordyce, Hastings, Sherman, Stout, Wolcott, and Executive Dean Engberg.

Head Professors Alway, Barber, Barbour, Bruner, Caldwell, Chase, Chatburn, Clapp, Condra, Fling, Fossler, Frandsen, Frye, Hoffman, Howard, Kiesselbach, Lees, Loomis, Luckey, Pugsley, Skinner, Wilcox, Wolfe.

Professors Aikin, Alexander, Almy, P. B. Barker, F. D. Barker, Bliss, Bradford, Brownell, Buck, Candy, Conklin, Crummer, Dales, Dann, B. B. Davis, Emerson, Ferguson, Findley, Fogg, Gain, Gifford, Guenther, Hinman, Hrbkova, Jonas, Jones, McClanahan, Macrea, Maxey, Milroy, B. E. Moore, R. C. Moore, Morrill, Owen, Persinger, Pound, Powers, Poynter, Raymond, Robbins, Schalek, Somers, Stiehm, Stuff, Swezey, Taylor, Towne, Traynor, Tuttle, Virtue, Waite, Webster, Willard, Wilson.

Registrar Rutledge, The Adviser to Women, The Librarian, Inspector Reed, Commandant Bowman, Directors Grummann, Le Rossignol, Lyman.

Standing Committees

Accredited Schools and Admission to Freshman Standing in the Colleges—
 The Chancellor (chairman), Deans Burnett, Davis, Stout, Professors Lees, Reed and the Registrar.

Athletics—Professors Barber (chairman), Caldwell, Morrill, Wolfe, the Athletic Director.

Delinquent Students—Professor Chatburn (chairman), the Adviser to Women, Professors Engberg (secretary), Frye, Maxey, the chairmen of inter-fraternity and inter-sorority councils.

Emergencies—The Chancellor (chairman), the Deans.

The Library—The Chancellor (chairman), the Deans, the Librarian (secretary).

Publication of University Studies—Professors Sherman (chairman), Bessey, Fling, Grummann, Frye.

Student Organizations and Social Functions—Professors Chatburn (chairman), Tuckerman (auditor), Engberg, Sanford, the Adviser to Women, the chairmen of the inter-fraternity and inter-sorority councils.

Convocation Exercises—Professor Grummann (chairman), Mrs. Raymond, the Registrar.

University Extension Courses and Credits—Professors Davis (chairman), Caldwell, Condra, Grummann, Pugsley, Reed, Wolfe.

Student Publications—Professors Stout (chairman), Aylsworth, Alexander, Buck, Bradford.

Nominations—The Chancellor (chairman), Professors Barber, Bessey, Burnett, Howard, Lees.

Correlation of Courses—The Chancellor (chairman), and the chairmen of the course of study committees of the colleges.

Student Welfare—The Chancellor (chairman), Professors Aylsworth, Bradford, Conklin, Wolfe.

Summer Session—Professors Wolfe (chairman), Burnett, Davis, Fordyce, Reed, Sherman, Taylor, and the Registrar (secretary).

ALPHABETICAL LIST OF ALL OFFICERS OF ADMINISTRATION AND INSTRUCTION

Marks and Abbreviations

Figures in parentheses (as 1910, 1911) indicate, respectively, year in which present rank was attained and year of first membership in a faculty of the University.

Letters in parentheses (as AS, E) indicate college faculty or faculties of which the person is a member.

FACULTIES

A=College of Agriculture
AS=College of Arts and Sciences
E=College of Engineering
G=Graduate College

L=College of Law
M=College of Medicine
T=Teachers College

OFFICES

Adm.=Administration Hall, Campus
Agr. H.=Agricultural Hall, Farm.
B=Brace Laboratory of Physics, Campus
C=Chemistry Hall, Campus
D=Dairy Hall, Farm
Elect.=Electrical Engineering Laboratories,
Campus
E. S.=Experiment Station Hall, Farm
G=Grant Memorial Hall, Campus
H. E.=Home Economics Hall, Farm
Hort. H.=Horticultural Hall, Farm

L=Library Hall, Campus
M=Mechanic Arts Hall, Campus
M. E.=Mechanical Engineering Labora-
tories, Campus
Mach. H.=Machinery Hall, Farm
Mus.=Museum, Campus.
N=Nebraska Hall, Campus
P. I.=Plant Industry Hall, Farm
S=Soldiers' Memorial Hall, Campus
U=University Hall, Campus

- Alkin, Joseph Melanchthon, M. D., Professor of Mental and Nervous Diseases, 468 Brandeis Building, Omaha (M).
- Alexander, Hartley Burr, Ph. D., Professor of Philosophy (1908, 1908), L 110, 1835 Ryons street (AS, G).
- Alexis, Joseph Emanuel Alexander, A. M., Assistant Professor of Swedish and Germanic Languages (1913, 1910), U 108, 1420 Elm street (AS).
- Allen, Mattie, A. M., Instructor in Primary Education, (T), 334 North Thirteenth street.
- Almy, John Edwin, Ph. D., Professor of Experimental Physics (1909, 1900), B 112, 2300 A street (AS, G).
- Alway, Frederick James, Ph. D., Head Professor of Agricultural Chemistry (1909, 1906). E. S. 101, 517 East Fifteenth Street, University Place (A, G).
- Anderson, Edward Emil, B. Sc., Assistant Superintendent of Construction, Adm. 207, 1802 P street, University Place (Adm.).
- Anderson, Emma Nathalia, A. B., Fellow in Botany, N 106, Gertrude Hall.
- Anderson, Mary Annette, B. Di., Secretary in Teachers' Bureau, Adm. 203, 2511 S street (Adm.).
- Avery, Samuel, Ph. D., LL. D., Chancellor and President of the University Senate (1909, 1901), Adm. 101, 2001 Washington street (Adm.).
- Aylsworth, Leon Emmons, A. M., Associate Professor of Political Science (1910, 1902), U 103, 2048 Vine street (AS, G).
- Ayres, Sarah Edith, Assistant in Library, L, 1815 Washington street (L).
- Bach, Emma, A. M., Instructor in Germanic Languages (1912, 1911), U 108, 2743 Q street.

- Baer, Alva Aldus, A. B., Adjunct Professor of Agricultural Engineering (1912, 1907), 1729 Prospect street (A).
- Barber, Grove Ettinger, A. M., Head Professor of Roman History and Literature (1906, 1882), U 205, 1320 L street (AS, T G).
- Barbour, Carrie Adeline, B. Sc., Assistant Curator of the Museum and Instructor in Paleontology (1911, 1893), Mus. 101, 1501 S street.
- * Barbour, Erwin Hineckley, Ph. D., Head Professor of Geology (1906, 1891), Curator of University Museum, Mus. 201, 1234 R street (AS, G).
- Barker, Franklin Davis, Ph. D., Professor of Medical Zoology and Parasitology (1913, 1903), N 202, 1819 South Twenty-sixth street (AS, M, G).
- Barker, Percy Bousfield, A. M., Professor of Instructional Agronomy (1913, 1908), E. S. 106, 3003 Starr street (A).
- Barns, Viola Florence, A. M., Instructor in American History (1912, 1909), U 210, 1619 R street (AS).
- Baumgartner, Milton D., A. M., Assistant Professor of Germanic Languages and Literature (1912, 1907), U 108, 1220 South Twenty-second street (AS).
- Beach, Allen Reed, Chief Clerk University Farm, Agr. H. 202, 3136 Holdrege street (Adm.).
- Beattie, Mabelle Benton, A. M., Library Assistant, M 202, 421 South Fifteenth street (Adm.).
- Becker, Charles Wesley, A. B., Scholar in Embryology and Histology, N 201, 345 North Fourteenth street.
- Beghtol, Jessie Gretchen, A. B., Instructor in Physical Education (1911, 1910), S 202, 1700 L street (AS).
- Bengtson, Nels August, A. M., Associate Professor of Geography and Conservation (1913, 1908), U 1, 1011 Euclid avenue (AS, T, E, A).
- Bennett, Elizabeth Ruth, Ph. D., Instructor in Mathematics (1910, 1910), M 301½, 1528 E street (AS).
- Bessey, Charles Edwin, Ph. D., LL. D., Head Dean and Head Professor of Botany (1906, 1884), N 104a, 1507 R street (AS, T, A, G).
- Blish, Morris Joslin, B. Sc., Assistant in Agricultural Chemistry, 1216 H street.
- Bliss, Ralph K., B. Sc., Professor of Animal Husbandry (1912, 1912), Agr. H. 103, 3045 Vine street (A).
- Bliss, Rodney Waldo, B. Sc., M. D., Instructor in Clinical and Internal Medicine, 410 Brandeis Theater Building, Omaha (M).
- † Boardman, Leland Jaynes, A. B., Assistant in Physics, B 113, 629 North Sixteenth street.
- Borrowman, George, A. M., Assistant Professor in Chemistry (1912, 1905), C 8, 947 South Thirteenth street (AS, E).
- † Bouton, Rosa, A. M., Professor of Home Economics (1908, 1900), H. E. (A, T).
- Bowman, Everett Newton, 1st Lieutenant 4th Infantry U. S. A., Professor of Military Science and Tactics and Commandant of Cadets (1912, 1912), 204 Armory, 3270 Starr street.
- Bradford, Harry Elwyn, A. B., Professor of Secondary Agricultural Education and Principal of Agricultural High School (1912, 1912), Agr. H. 207, 3230 Starr street (A).
- Brenke, William Charles, Ph. D., Professor of Mathematics (1913, 1907), M 305, 1250 South Twenty-first street (AS, E).
- Bridges, Willson Orton, M. D., Dean of the College of Medicine and Professor of Principles and Practice of Medicine, 418 Brandeis Theater Building, Omaha (M).
- Bridgman, Judd Noble, M. S., Associate Professor of Civil Engineering (1913, 1909), M 205, 1909 South Twenty-seventh street (E, G).
- Brock, Henrietta McElroy, Instructor in China Painting, School of Fine Arts (1894, 1894), L 304, 620' South Tenth street (AS).

* Director of State Geological Survey.

† Resigned.

- Brown, Mary-Ellen, B. Sc., Instructor in Home Economics (1911, 1911), H. E. (A).
- Brownell, Herbert, B. Sc., Professor of Theory and Practice of Teaching the Physical Sciences (1910, 1910), 2627 P street (T, AS).
- * Bruner, Lawrence, B. Sc., Head Professor of Entomology and Entomologist of the Experiment Station (1906, 1888), N 303, 2314 South Seventeenth street (AS, A, G).
- Buck, Philo Melvyn, Jr., A. M., Professor of Rhetoric (1912, 1910), U 107 C, 1825 Pepper avenue (AS, G).
- Bullock Flora, A. M., Adjunct Professor of English in the Agricultural High School (1910, 1903), A. H. 109, Thirty-sixth and Y streets (A).
- Bunting, Albert Eggleton, Adjunct Professor of Practical Mechanics (1909, 1907), M. E. 202, 1604 Elm street (E).
- Burnett, Edgar Albert, B. Sc., Dean of the College of Agriculture and Director of Experiment Stations (1909, 1899), Agr. H. 203, 3256 Holdrege street (A).
- Burr, William Wesley, B. Sc., Assistant at North Platte Experiment Substation (A).
- Burritt, Esther Mosher, A. B., English Assistant in Agricultural High School, Agr. H. 109, 2811 S street (A).
- Caldwell, Howard Walter, A. M., Head Professor of American History (1906, 1883), U 210, 1919 E street (AS, G, T).
- Candy, Albert Luther, Ph. D., Professor of Pure Mathematics (1907, 1893), M 304, 1003 H street (AS, G).
- Chamberlain, May, A. M., Adjunct Professor of Germanic Languages and Literatures (1913, 1896), U 109, 2730 Q street (AS).
- Chase, Leon Wilson, B. Sc. in M. E., Head Professor of Agricultural Engineering (1911, 1904), Mach. H., 1245 North Thirty-third street (A, G, E).
- Chatburn, George Richard, A. M., C. E., Head Professor of Applied Mechanics and Machine Design (1909, 1894), M 101, 2850 P street (E, G).
- Cheuvront, Alice, Secretary to the Principal, Agricultural High School, 2740 T street (Adm.).
- Chowins, Charles Edmund, M. E., Superintendent of Buildings, Grounds and Construction (1908, 1887), Adm. 208, 1802 Washington street (Adm.).
- Chowins, John Martin, Expert Mechanician, Department of Physics, 2820 T street.
- Christie, Burton Whitford, B. Sc., M. D., Instructor in Pediatrics, 417 Barker Block, Omaha (M).
- Clapp, Raymond Gustavus, Ph. B., M. D., Head Professor of Physical Education and Director of the Men's Gymnasium (1912, 1902), G 206, 2017 Washington street (AS, T, G, M).
- Clark, Letta May, A. B., Instructor in the teaching of English, Teachers College High School, 814 East Sixteenth street, University Place (AS).
- Cloyd, Augustus Davis, M. D., Lecturer in Life Insurance Examinations, Woodmen Building, Omaha (M).
- Compton, Nellie Jane, A. B., Assistant Librarian, in Charge of Library, L, 1736 Cherry street (Adm.).
- † Conant, Ernest Bancroft A. B., LL. B., Professor of Law (1907, 1907), Law Building, 1430 South Eighteenth street (L).
- ‡ Condra, George Evert, Ph. D., Head Professor of Geography and Conservation (1912, 1902), U 2, 1319 Q street (AS, A, E, T, G).
- Conklin Clara, A. M., Professor of Romance Languages and Literatures (1904, 1892), U 301, Gertrude Hall (AS, T, G).
- Cooper, John Ralph, B. Sc., Assistant Professor of Horticulture (1912, 1912), Horticultural Building, 245 South Twenty-ninth street.
- Cornell, Clare Brown, A. M., Instructor of Cadet Band and Assistant in Philosophy (1912, 1911), L 111, 540 North Twenty-sixth street.

* Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the Experiment Station.

† Leave of absence.

‡ Director of State Conservation and Soil Survey.

- Cowan, James, M. M. E., Superintendent of Experiment Substation, Valentine (Adm.).
- Craig, Clara Louisa, A. B., Library Assistant, L, 421 South Twenty-eighth street (Adm.).
- Crawford, N., A., Lecturer on Patent Law.
- Currens, Frederick Hawley, A. M., Instructor in Chemistry (1912, 1912), 521 North Sixteenth street.
- Currier, Edwin Lovejoy, B. Sc., Assistant in Farm Management, 12-8 R street.
- Cutter, Irving Samuel, B. Sc., M. D., Adjunct Professor of Chemistry, Secretary of Medical College Faculty and Director of Laboratory Building (1913, 1911), Omaha (M).
- Dales, Benton, Ph. D., Professor of Chemistry and in charge of Department of Chemistry (1911, 1903), C, 2025 C street (AS, T, E, M, G).
- Dales, James Stuart, M. Ph., Secretary of the Board of Regents and of the University Senate, Adm. 102, 1743 A street (Adm.).
- Dann, William Francis, A. M., Professor of History and Criticism of the Fine Arts (1907, 1894), U 202, 3037 R street (AS, G).
- Davis, Byron Bennett, A. B., M. D., Professor of Principles of Surgery and Clinical Surgery, 200 Bee Building, Omaha (M).
- Davis, Ellery Williams, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics (1901, 1893), A 104, 1345 South Eighteenth street (AS, T, E, G).
- Davis, Helen Lee, B. Sc., A. B., Adjunct Professor of Home Economics (1912, 1911), H. E., (A).
- Davis, Searl S., A. B., Instructor in Rhetoric (1911, 1910), U 107A, 1920 A street (AS).
- Dawson, Ralph Ward, B. Sc., Assistant in Entomology, 1105 North Thirty-third street (AS, A).
- Day, Anna Mabel, Adjunct Professor of Physical Education (1913, 1910), G, 1717 South Twenty-fourth street.
- Day, Elsie, A. B., Ph. G., Adjunct Professor of Pharmacognosy (1913, 1908), N 7, 2030 Sumner street (AS, M).
- Dean, Charles Lee, B. Sc. in M. E., Associate Professor of Mechanical Engineering (1913, 1902), M. E. 101, 2752 O street (E, G).
- Debel, Niels H., Scholar in Political Science, U 103, 321 North Seventeenth street.
- Denny, Glaideth Gainevere, A. B., Instructor in German and History, Agricultural High School (1908, 1908), Agr. H. 304, 1726 Q street (A).
- Drake, Nellie Boyd, A. B., Graduate Assistant in Philosophy, L 111, 1619 R street.
- Dunman William Hill, Landscape Gardener, Hort. H., 37th and Holdrege streets (Adm.).
- Dunn, Mabel, M. D., Consulting and Examining Physician for Women, G, 308 Ganter Building (Adm.).
- * Duppre, William Jacob, M. S. F., Adjunct Professor of Forestry (1911, 1911), N 303, 3010 Q street (A, G).
- Dworak, Mayme, A. B., Fellow in Botany, N 106, 245 North Twenty-fifth street.
- Eads, Lucile Blanche, A. B., Fellow in American History, 427 South Eleventh street.
- Eaton, Roy Wesley, Instructor Normal Training, Agricultural High School (1912, 1912), 3011 Starr street (A).
- † Eaves, Lucile, Ph. D., Associate Professor of Practical Sociology (1909, 1909), U 103, 1545 South Seventeenth street (AS, G).
- Elley, Harold Walter, B. Sc., Assistant in Chemistry, 1437 Q street.
- Emerson, Rollins Adams, B. Sc., Professor of Horticulture (1905, 1899), Hort. H., 3034 R street (A, G, AS).
- Engberg Carl Christian, Ph. D., Executive Dean and Professor of Applied Mathematics (1913, 1896), Adm. 104, 330 North Thirty-second street (AS, E, G).
- England, Minnie Throop, Ph. D., Instructor in Political Economy (1909, 1909), U 101, 1330 Vine street, University Place (AS).

* Resigned.

† Leave of absence.

- Ensign, Alice Baird, A. B., Adviser to Women, Adm. 104, Walworth Road, R. A. No. 4 (Adm.).
- Evans, Harlan Alfred, Purchasing Agent, Adm. 202, 411 East Fifteenth street, University Place (Adm.).
- Fairchild, Nora May, M. D., Clinical Assistant in Gynecology, 826 Brandeis Building Omaha (M).
- Ferguson, Olin Jerome, M. E. E., Head Professor of Electrical Engineering (1912, 1912), M 208, 2610 Vine street (E).
- Filley, Horace Clyde, A. M., Assistant Professor of Farm Management (1912, 1911), Agr. H. 205, 2344 Dudley street (A).
- Findley, Palmer, B. S., M. D., Professor of Didactic and Clinical Gynecology, 418 Brandeis Theater Building, Omaha (M).
- Flansburg, Claude Copley, Lecturer on Advocacy, Funke Building, 1645 A street (L).
- Fling, Fred Morrow, Ph. D., Head Professor of European History (1906, 1891), L 309, 1530 South Twenty-second street (AS, T, G).
- Fogg, Miller Moore, A. M., Professor of Rhetoric (1905, 1901), U 206, 644 North Twenty-sixth street (AS, G).
- * Folger, Harriet, B. Sc., Associate Professor of Home Economics (1909, 1909), H. E., 1129 J street (A).
- Fordyce, Charles, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practice (1908, 1908), Adm. 104, 1921 C street (T, AS, G).
- Fossler, Laurence, A. M., Head Professor of Germanic Languages and Literatures (1906, 1889), U 108, 1547 South Seventeenth street (AS, T, G).
- Fossler, Mary Louise, A. M., Adjunct Professor of Chemistry (1908, 1898), C, 2434 Q street (AS, M).
- Foster, George Nimmons, Ph. B., LL. B., Assistant Professor of Law (1912, 1912), Law Building, 1228 R street (L).
- Frandsen, Julius Herman, M. S. A., Head Professor of Dairy Husbandry (1911, 1911), D, 1401 North Thirty-third street (A).
- Frankforter, Clarence Jackson, A. M., Instructor in Chemistry and Custodian of Supplies (1909, 1909), C, 710 North Twenty-fourth street (AS).
- * French, William Luther, B. Sc., Adjunct Professor of Dairy Husbandry (1909, 1909), D, 3111 Starr street (A, T).
- Frye, Prosser Hall, A. B., Head Professor of Rhetoric (1909, 1896), U 107b, 528 South Tenth street (AS, E, T, G).
- Fulmer, Ellis Ingham, A. B., Scholar in Chemistry, 323 West St. Paul street, University Place.
- Gaeckler, Maude Hazel, A. B., Fellow in Greek, 703 North Thirtieth street.
- Gain, James Harrison, M. D. C., Professor of Animal Pathology (1910, 1901), Veterinary Building, 3248 Starr street (A).
- Gass, Sherlock Bronson, Ph. B., Assistant Professor of Rhetoric (1911, 1905), U 107C, 1712 E street (AS).
- Gifford, Harold, B. S., M. D., Professor of Ophthalmology and Otology, 563 Brandeis Building, Omaha (M).
- Gish, Oliver Holmes, B. Sc., Graduate Assistant in Physics, B 113, 535 North Sixteenth street (AS).
- Gittings, Ina Estelle, A. B., Assistant Professor of Physical Education and Director of Women's Gymnasium (1913, 1907), S 202, 2618 P street (AS, T).
- Glass, Jessie June, A. B., Library Assistant, L, 3141 Holdrege street (Adm.).
- Goddard, Ralph Willis, B. Sc. in E. E., Instructor in Electrical Engineering.
- Goetz, James Samuel, M. D., Adjunct Professor of Therapeutics, 324 Bee Building, Omaha (M).
- Graham, Ada Virginia, A. M., Assistant in Roman History and Literature (1912, 1912), U 205, 2525 R street (A).

- Gramlich, Howard John, B. Sc., Assistant Superintendent of Agricultural Extension and Associate Professor of Animal Husbandry (1913, 1911), Agr. H. 204, 535 North Sixteenth street (A).
- Green, John, Engineer of Heating and Power Plant (Adm.).
- Greer, Vancil Kelso, LL. B., Assistant Registrar, Adm. 103, 2603 Vine street (Adm.).
- Grennan, John, Instructor in Mechanical Engineering (1911, 1911), M. E. 106, 1128 J street (E).
- Griffith, Donee, A. B., Instructor in the teaching of Geography and Botany, Teachers College High School (1912, 1910), U 7, 1227 South Fifteenth street.
- Grummann, Paul Henry, A. M., Director of the School of Fine Arts and Professor of Modern German Literature (1912, 1900), L 304, 1967 South street (AS, T, G).
- Guenther August Ernest, Ph. D., Professor of Physiology (1908, 1905), N 5, 1712 E street (AS, M, G).
- Hahne, Ernest Herman, A. B., Assistant in Department of Political Economy, U 101, 418 South Twenty-seventh street.
- Hall, Harry V. M., A. B., Scholar, Department of Zoology, N 207, 1208 S street.
- * Hamilton, H. B., M. D., Clinical Assistant in Medicine, Omaha (M).
- Hannah, Margaret Louise, A. B., Instructor in Botany (1912, 1910), N 106 (AS).
- Hannan, William Everett, A. B., Assistant Director Legislative Reference Bureau, U 6, Thirty-eighth and Normal Boulevard.
- Hansen, Niels Peter, Ph. G., Lecturer in Commercial Pharmacy, N 7, 1933 Garfield street (AS).
- * Harper, Ella Bradford, A. B., Instructor in Home Economics (1908, 1908), H. E., 928 South Tenth street (A).
- Hastings, William Granger, A. B., Dean of the College of Law (1909, 1904), Law Building, 301 North Thirty-fifth street (L).
- Hawes, Annie, A. M., Scholar in Political Science, U 103, 1634 Maple street.
- Hawley, Marguerite Florence, B. Sc., Cataloger in Library, L, 1122 South Fourteenth street (Adm.).
- Hayden, Sara Shewell, Associate Professor of Drawing and Painting (1912, 1899), L 306 (AS).
- Hays, Mabel Rommell, A. B., Instructor in English Language and Literature (1913, 1910), 1830 Washington street (A).
- Hedges, Mabel Maude, A. B., Instructor in Home Economics (1911, 1909), 2502 Q street (A).
- Heppner, Amanda Henrietta, A. M., Assistant Professor of Germanic Languages and Literatures (1909, 1901), U 110, 944 Washington street (AS).
- Hill, Cora Belle, A. M., Instructor of Mathematics and Assistant Principal of Teachers College High School (1911, 1910), Temple, 1530 B street.
- Hilton, David Clark, A. M., M. D., Instructor in Anatomy, M 301, 2832 O street (M).
- Hinman, Edgar Lenderson, Ph. D., Professor of Logic and Metaphysics (1906, 1896), L 110, 920 South Eighteenth street (AS, G).
- Hinterlong, Anna Laura, A. B., Assistant in Geology.
- Hoffman, James David, M. E., Head Professor of Mechanical Engineering and Practical Mechanics (1912, 1911), M. E. 203, 1746 Washington street.
- Hollister, Robert Russell, M. D., Instructor in Surgery and Gynecology, 714 State Bank Building, Omaha (M).
- Hollister, Vernon Leo, E. E., Associate Professor of Electrical Engineering (1913, (1907), E. E. Lab. 4, 2520 Garfield street (E).
- Holmes, Rachel Edna, A. B., Fellow in Botany, 626 North Thirteenth street.
- Hopt, Erwin, B. Sc. in A., Assistant Professor of Agronomy (1911, 1908), J 204, 3015 Orchard street (A).
- Hosford, Frederick Addison, Campus Electrician, Adm. 207, Y. M. C. A. Building (Adm.).

* Deceased.

- Howard, George Elliott, Ph. D., Head Professor of Political Science and Sociology (1904, 1891), U 103, 1910 E street (AS, G).
- * Howard, Robert Francis, B. Sc. in Agr., Assistant Professor of Horticulture and Assistant in Experiment Station (1911, 1908), Hort H., 1544 Q street (A).
- Howell, Harriet Alice, A. M., Adjunct Professor of Dramatic Art (1912, 1900), U 106, The Orlo (AS, T).
- Hrbkova, Sarka, A. B., Adjunct Professor of Slavonic Languages, Acting Head of the Department of Slavonic Languages (1910, 1907), M 105, 1439 R street (AS).
- Hull, Charles Aaron, M. D., Instructor in Surgery, 200 Bee Building, Omaha (M).
- Hunt, Alfred Onias, D. D. S., Lecturer in Dental Surgery, 420 Bee Building, Omaha (M).
- Hunter, Alice Cushman, Ph. D., Adjunct Professor of Roman History and Literature (1908, 1903), U 205, 1448 R street (AS).
- Hunter, Frederick Maurice, A. B., Professor of Elementary Education (1911, 1911), 3230 Starr street (A, T).
- Hyde, Winifred Florence, Ph. D., Assistant Professor of Philosophy (1913, 1911), L 109, 1039 C street (AS).
- Jefferson, Alfred, M. D., Instructor in Therapeutics and Gynecology, 440 Brandeis Building, Omaha (M).
- † Jewett, Walter Kendall, A. B., M. D., Librarian (1906, 1906), L, 1634 D street (Adm.).
- Johnson, F. E., Assistant Commandant.
- Johnson, Henry T., B. Sc., Adjunct Professor of Mathematics (1913, 1907), M 307, 1230 L street (AS).
- Jonas, August Frederick, M. D., Professor of Practice of Surgery and Clinical Surgery, 454 Brandeis Building, Omaha (M).
- Jones, Guernsey, Ph. D., Professor of English-American History (1913, 1897), U 211, 1418 L street (AS, G).
- Kates, Alta May, Library Assistant, 137 South Twenty-sixth street (Adm.).
- Kates, Jennie May, A. B., Assistant in European History and University Extension, 1020 K street.
- Keegan, John Jay, B. Sc., Assistant in Anatomy, 2137 R street.
- Keegan, Myrtle, Librarian and Stenographer, Legislative Reference Bureau, 2024 South Eighteenth street.
- Keim, Franklin David, Assistant in Physics, Agricultural High School.
- Kennedy, Charles Rex, M. D., Instructor in Surgery, 460 Brandeis Building, Omaha (M).
- Kiesselbach, Theodore Alexander, A. M., Professor of Experimental Agronomy (1913, 1908), 2991 Holdrege street (A).
- Kingsland, Earle Brush, Ph. B., B. Sc. in C. E., Instructor in Civil Engineering (1912, 1912), M 205, 626 South Twelfth street (E).
- Kinney, Samuel Marks, A. B., Graduate Assistant in Physics, B 116, 316 West Seventeenth street, University Place.
- Kirk, Will A. B., Scholar in Chemistry, 1437 Q street.
- Klick, John Joseph, M. D., Instructor in Dermatology, 514 Brandeis Theater Building, Omaha (M).
- Kline, George Washington, A. B., Secretary Alumni Association, 721 First National Bank Building, 2464 Sewell street.
- Knorr, Fritz, B. Sc., Superintendent of Experiment Substation at Scottsbluff (Adm.).
- Korsmeyer, Julia Marie, A. M., Assistant Professor of Romance Languages and Literatures (1911, 1901), U 302, 1920 C street (AS, G).
- Kramer, Bertha Nathalia, B. Sc., Fellow in Botany, N 102b, 1437 S street.
- Lammers, Josephine Sophia, A. B., Cataloger in Library, L, 2630 R street.
- Lane, Wallace Rutherford, LL. B., Lecturer on Patent Copyright and Trade Mark Law, Des Moines, Ia. (L).

* Resigned.

† Deceased.

- Ledwith, John James, B. Sc., LL. B., Adjunct Professor of Law (1911, 1903), Law Building, 1230 South Sixteenth street (L).
- Lee, Charles Boss, B. Sc., Assistant Professor of Animal Husbandry (1912, 1910), Agr. H. 104, 1306 L street (A).
- Lee, Jessie Alice, A. B., Fellow in Botany, 2501 Dudley street.
- Lees, James Thomas, Ph. D., Head Professor of Greek History and Literature (1906, 1889), U 215, 645 North Thirtieth street (AS, G, T).
- Lefschetz, Solomon, M. E., Ph. D., Instructor in Mathematics (1911, 1911), M 301½, 535 North Sixteenth street (AS).
- Leinhoff, Henry John, A. B., M. D., Instructor in Surgery, M 300, 1945 E street (M).
- Leland, Rev. Dean Richmond, A. M., Chaplain of University Cadets, 204 Armory, 1315 South Twenty-first street.
- Lemere, Henry Bassett, M. D., Instructor in Ophthalmology and Otology, 400 Brandeis Theater Building, Omaha (M).
- Le Rossignol, James Edward, Ph. D., LL. D., Director of School of Commerce and Head Professor of Political Economy and Commerce (1913, 1911), U 101, 1924 Prospect street (AS, G).
- Lewis Garland Edison, B. Sc., Assistant in Chemistry, 800 North Sixteenth street.
- Liebers, Otto Hugo, Instructor in Dairy Husbandry, Dairy Building, 3134 Vine street (A).
- Link, George Konrad Karl, A. M., Assistant Professor of Agricultural Botany (1913, 1910), P. I. 303, 430 North Twenty-fifth street (A).
- Logan, Leo Joseph, Chief Clerk, Secretary's Office, Adm. 102, 2704 P street (Adm.).
- Loomis, Alice Marie, A. M., Head Professor of Home Economics (1913, 1912), Home Economics Building (AS, A).
- Loughridge, Julia Emmeline, A. B., Assistant Principal of the Agricultural High School and Adjunct Professor of Mathematics (1909, 1899), H. E. (A).
- Loveland, George Andrew, A. M., LL. B., Professor of Meteorology (1913, 1894), and Section Director of the United States Weather Bureau, B 305, 1130 South Twentieth street (AS, G).
- Luckey, George Washington Andrew, Ph. D., Head Professor of Education (1906, 1895), U 20, 1431 R street (AS, T, G).
- Ludden, Arthur J., Instructor American History and Chemistry, Agricultural High School (1911, 1911), (A).
- Ludington, Paul Hagans, A. B., M. D., Instructor of Medicine, 815 Brandeis Building (M).
- Lyman, Rufus Ashley, A. M., M. D., Professor of Pharmacology and Director of the School of Pharmacy (1908, 1902), N 7, 1641 South Twenty-first street (M, Pharmacy).
- McClanahan, Harry Monroe, M. D., Professor of Pediatrics, 468 Brandeis Building, Omaha (M).
- McComb, Harold Edgar, A. M., Instructor in Physics (1911, 1911), B 115, 3225 Holdrege street (AS).
- McDole, Guy R., A. M., Assistant in Agricultural Chemistry (1912, 1912), 518 East Twenty-first street, University Place (A).
- McGahey, Florence Irwin, A. B., Assistant Registrar, Adm. 103, 1200 H street (Adm.).
- McKelvie, Samuel, Lecturer in Swine Judging (1909, 1909), Agr. H. 104, 3101 N street (A).
- McPhee, Marguerite Cameron, A. M., Adjunct Professor of Rhetoric (1912, 1905), U 107b, The Carlo (AS).
- Manning, Ernest Tibbetts, M. D., Instructor in Medicine, 501 Paxton Block, Omaha (M).
- Mantor, Edna Clara, A. B., Fellow in Zoology, N 208, 1208 S street.
- Marshall, William Warner, Executive Clerk of Nebraska Experiment Station, Agr. H. 201, 229 North Eleventh street (Adm.).
- Maxey, Edwin, D. C. L., Ph. M., Professor of Public Law and Diplomacy (1906, 1906), Law Building, 1140 F street (L, AS, G).

- Menlove, Lulu, Head of the Stenographic Bureau, Adm. 205, 605 South Tenth street (Adm.).
- Meyer, Carl Augustus, Assistant in Physiology, 1711 K street, University Place.
- Meyer, John Richard, Assistant in Registrar's Office, Adm. 103, 2401 Garfield street (Adm.).
- Mickey, Clark Edwin, B. Sc. in M. E., B. Sc. in C. E., Assistant Professor of Applied Mechanics and Machine Design (1913, 1908), M 101, 1337 South Eleventh street (E).
- Miller, Harry Melborn, Assistant to Purchasing Agent, Adm. 202, 120 East Thirteenth street, University Place (Adm.).
- Milroy, William Forsyth, M. D., Professor of Clinical Medicine and Physical Diagnosis, 454 Brandeis Theater Building, Omaha (M).
- Miskell, Berna Anne, B. Sc. in Agr., Instructor in Home Economics (1912, 1912), H. E.
- Mitchell, Claude William, A. M., Graduate Assistant in Zoology and Physiology, N 308, 1445 G street.
- Mitchell, Helene, A. B., Scholar in Rhetoric, U 107c, 1606 L street.
- Mogridge, George, M. D., Lecturer in Arrested Development, Glenwood, Ia. (M).
- Moore, Burton Evans, Ph. D., Professor of Physics (1907, 1896), B 113, 1900 Euclid avenue (AS, E, G).
- Moore, John Clyde, A. B., B. Sc., M. D., Clinical Assistant in Medicine, 429 Brandeis Building, Omaha (M).
- Moore, Robert Leo, Instructor in Forge Work (1912, 1912), Mach. H., 315 North Twentieth street (A).
- Morison, Charles Campbell, A. B., Instructor in Surgery (1910, 1910), 1701 Locust street, Omaha (M).
- Morrill, Walter Jean, M. F., Professor of Forestry (1912, 1912), N 105, 1848 Prospect street (A).
- * Morse, George Hart, B. E. E., E. E., Professor of Electrical Engineering (1903, 1898), M 208, 350 North Twenty-eighth street (E, G).
- Moseley Thomas Wesley, B. Sc., Assistant in Agricultural Botany, 1626 E street (A).
- Munson, Grace E., A. M., Instructor in Education (1912, 1912), U 209, 1645 R street (AS).
- Needham, Daisy Jeanette, A. M., Instructor in European History (1909, 1907), L 308, 1420 South Seventeenth street.
- Nesbitt, Orpha Ellen, B. Sc., Instructor in Home Economics (1909, 1909), H. E., 1129 J street (A).
- Noble, Edna Clara, B. L., Library Assistant.
- Nye, Homer L., Foreman, Experimental Substation, Culbertson.
- Ohlsen, Edith, Instructor in Home Economics (1912, 1912), H. E. (A).
- Ollis, Clyde Leroy, Assistant to Purchasing Agent, Adm. 202, 1447 Q street (Adm.).
- Olsen, Anna Margarethe, B. Sc., Adjunct Professor of Home Economics (1912, 1912), H. E. (A).
- Ord, Maude Rennie, Secretary to the Chancellor, Adm. 101, 1525 F street (Adm.).
- Orr, Hiram Winnett, M. D., Assistant Professor of History of Medicine (1909, 1905), M 300, 519 First National Bank Building (M).
- Owen, Frank Styles, M. D., Professor of Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- Page, Ernest Clifford, Ph. M., LL. B., Lecturer in Medical Jurisprudence, 815 New Omaha National Bank Building, Omaha (M).
- Patton, James McDowell, A. M., M. D., Instructor in Ophthalmology and Otology (1909, 1909), 563 Brandeis Building, Omaha (M).
- Payne, Walter Scott, Instructor in Foundry and Machine Shops (1901, 1901), M 108, University Place (E).

* Resigned.

- Perin, Senator Willis, Superintendent of the University Farm, Agr. H. 205, University Farm (A).
- Persinger, Clark Edmund, A. M., Professor of American History (1913, 1901), U 210, 1025 South Ninth street (AS, T, E, G).
- Perusse, Francis Joseph, Ph. C., Assistant Professor of Pharmacy (1913, 1908), U 3, 823 North Twenty-sixth street.
- Peterson, Alfred Olaf, M. D., Instructor in Internal Medicine, 203 Ramage Building, Omaha (M).
- Pfeiffer, Laura Belle, Ph. D., Adjunct Professor of European History (1906, 1903), Temple, The Orlo (AS).
- Pilsbury, Laurence Bell, A. B., M. D., Adjunct Professor of Bacteriology and Pathology (1909, 1905), N 306, Asylum, R. F. D. No. 8.
- Pollard Charles Whitney, A. B., M. D., Adjunct Professor of Obstetrics, 446 Brandeis Building, Omaha (M).
- * Pollock, George, Clerk in Principal's Office, Agricultural High School, Agr. H. 207 (Adm.).
- Pool, Raymond John, A. M., Associate Professor of Botany, Curator of the Herbarium (1911, 1907), N 102a, 1451 Q street (AS).
- Potts, John Beekman, M. D., Clinical Assistant in Diseases of the Eye and Ear, in Dispensary, Omaha (M).
- Pound, Louise, Ph. D., Professor of the English Language (1912, 1900), U 311, 1632 L street (AS, G).
- Powers, Joseph Horace, Ph. D., Professor of General and Experimental Zoology (1910, 1905), N 208a, 3150 R street (AS, G, M).
- Poynter, Charles William McCorkle, B. Sc., M. D., Professor of Anatomy and in charge of Department of Anatomy (1910, 1905), M 300, 1749 Washington street.
- * Puffer, Lewis Morgan, Ph. B., Instructor in Mathematics in the Agricultural High School (1911, 1911), 2931 S street (A).
- Pugsley, Charles William, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management (1911, 1908), Agr. H. 302, 3260 Starr street (A, G).
- Putnam, John Jacob, A. M., Adjunct Professor of Bacteriology and Pathology (1912, 1911), N 306, 327 North Eleventh street (M).
- Raber, Benedict Frederick, B. Sc. in M. E., Associate Professor of Mechanical Engineering (1913, 1912), M. E. 207, 2600 Q street (E).
- Rail, Ellis, B. Sc. in A., Assistant Professor of Animal Husbandry (1910, 1908), Agr. H. 104, 1536 P street (A).
- Rasmussen, Jesse Ephraim, M. E., Assistant Professor of Applied Mechanics and Machine Design (1911, 1907), M 401, 1444 D street (E).
- Ratcliff, John Anderson, B. Sc., Instructor in Experimental Agronomy (1912, 1912), 1326 North Twenty-ninth street (A).
- Raymond, Anan Richard, A. B., Assistant in Chancellor's Office, Adm. 101, 1544 Q street (Adm.).
- Raymond, Carrie Belle, Director of Music (1907, 1894), T, 1414 L street (AS).
- Reed, Albert Alison, A. M., Inspector of Accredited Schools and Professor of Secondary Education, Acting Director of University Extension (1909, 1908), Adm. 203, 1251 South Twenty-seventh street (T, AS).
- Reed, Guy Euclid, A. B., Assistant Manager and Assistant Director of Athletics (1913, 1912), 2500 P street.
- Reese, Elizabeth Irene, A. M., Adjunct Professor of Romance Languages and Literatures (1907, 1905), U 311, Gertrude Hall (AS).
- Reynolds, Clarence Clarke, Assistant in Physical Education, Armory, 1325 R street.
- Richards, Grace, A. B., Instructor in Home Economics (1911, 1911), H. E., University Farm (A).
- Riddervold, Adolph Storm, Assistant Professor of Civil Engineering (1911, 1911), M 203, 217 North Twenty-fifth street (E).

* Resigned.

- * Rippey, John Raymond, B. Sc., Assistant to Superintendent of Grounds and Buildings, 1421 L street (Adm.).
- Robbins, Charles Augustus, Ph. M., LL. B., Professor of Law (1909, 1909), Law Building, 1825 G street (L).
- Rood, Adelaide C., Assistant in Library, L, 856 North Twenty-fifth street (Adm.).
- Rood, Grace, Assistant in Library, L, 856 North Twenty-fifth street (Adm.).
- Rost Clayton Ord, A. M., Assistant in Agricultural Chemistry, E. S. 105, 1217 North Twenty-fifth street.
- Rowan, Gertrude Norton, A. M., Assistant in Agricultural Extension, 1645 K street (A).
- Rowe, Edward Winfield, B. Sc., M. D., Instructor in Materia Medica, 514 First National Bank Building, 1260 South Twenty-second street (M).
- Rubendall, Clarence, B. Sc., M. D., Clinical Assistant in Diseases of Nose and Throat, in Dispensary, Omaha (M).
- Runge, Lulu L., A. M., Instructor in Mathematics (1911, 1909), M 303, 1527 M street (AS).
- Rutledge, Edward Markwood, A. B., Registrar and University Publisher, Adm. 103, 2001 South Eighteenth street (Adm.).
- Ryan, Sarah Agnes, A. M., Instructor in Teaching of German, Teachers College High School (1912, 1912), Temple, Havelock.
- Sanford, Frederick Warren, A. B., Assistant Professor of Roman History and Literature (1906, 1906), U 205, 1728 South Twenty-sixth street (AS, G, T).
- Schalek, Alfred, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases, 514 Brandeis Theater Building, Omaha (M).
- Schrag, Andrew D., Ph. D., Associate Professor of Germanic Languages and Literature (1913, 1908), U 108, 1230 L street (AS).
- Schramm, Eck Frank, A. M., Assistant Professor of Geology (1913, 1908), Mus. 301, 415 Y. M. C. A. Building.
- * Scipio, Lynn A., M. E., Assistant Professor of Mechanical Engineering (1911, 1908), M. E. 101, 1604 Elm street (E).
- Scott, Robert Douglas, A. M., Assistant Professor of English Dramatic Literature (1912, 1911), L 301, 345 South Fourteenth street (AS).
- Seaton, Lawrence Froyd, B. Sc. in M. E., Assistant Professor of Agricultural Engineering (1913, 1912), M. H., 3220 Starr street.
- Sheldon, Addison Erwin, A. M., Special Lecturer in Political Science (1909, 1908), and Director Legislative Reference Bureau, U 6, 1319 South Twenty-third street (AS).
- Sherman, Lucius Adelno, Ph. D., LL. D., Dean of the Graduate College and Head Professor of English Language and Literature (1906, 1882), A 104, 1234 J street (AS, T, G).
- Shidner, Ruby Maude, Stenographer, Registrar's Office.
- Shoemaker, Frank Henry, Stenographer and Clerk, Medical College, N 206, 835 South Twelfth street.
- Skinner, Clarence Aurelius, Ph. D., Head Professor of Physics (1912, 1899), B 114, 1602 Poplar street (AS, E, G).
- Slaymaker Philip Kuhns, M. E., Associate Professor of Applied Mechanics and Machine Design (1911, 1907), M 309, 425 South Twenty-sixth street.
- Smith, Chauncey William, Instructor in Physics, Agricultural High School (1912, 1912), 411 North Twenty-second street (AS).
- Snyder, William Patton, A. B., M. S., Superintendent of North Platte Experimental Substation, North Platte (Adm.).
- Somers, Andrew Bartholomew, M. D., Professor of Obstetrics, 446 Brandeis Building, Omaha (M).
- Spencer, Bertram John, Demonstrator and Teacher of Construction in Physics (1908, 1905), N 117, 1325 North Twenty-fourth street (AS).

* Resigned.

- Stephens, George Asbury, Ph. D., Assistant Professor of Political Economy (1912, 1909), U 101, 118 North Twenty-ninth street (AS).
- Stevens, James Franklin, A. M., M. D., Adjunct Professor of Materia Medica, 304 Funke Building (M).
- Stewart, Charles Oran, A. M., Instructor in Romance Languages (1912, 1912), U 311, 229 North Seventeenth street (AS).
- Stiehm, Ewald Ortwin, A. B., Professor and Director of Athletics (1912, 1911), G, 627 South Twenty-eighth street (AS).
- Stokes, Arthur Charles, B. S., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy, 503 Brandeis Building, Omaha (M).
- Stout, Oscar Van Pelt, C. E., Dean of the College of Engineering and Head Professor of Civil Engineering (1912, 1891), 2003 South Twenty-third street (E, G).
- Stuff, Frederick Ames, A. M., Litt. D., Professor of English Language and Literature (1912, 1902), L 301, 434 South Twenty-eighth street (AS, T, G).
- Sturdevant, LaZelle Brantley, A. M., M. D., Associate Professor of Animal Pathology (1913, 1906), Veterinary Hall 202, 2757 Holdrege street (A).
- Swenk, Myron Harmon, A. M., Associate Professor of Entomology (1911, 1908) and Assistant State Entomologist, E. S. 207, 3028 Starr street (A, AS).
- Swezey, Goodwin De Loss, A. M., Professor of Astronomy (1905, 1894) Observatory 2600 R street (AS, G).
- Taylor, Charles William, A. B., Professor of School Administration and Principal of the Teachers College High School (1911, 1911), T, 1529 South Twenty-fourth street.
- Taylor, W. H., Instructor in Obstetrics, Omaha (M).
- Thomas, James Lloyd, B. Sc., Assistant in Agronomy, 853 North Thirtieth street.
- Thompson, Bessie Enyeart, Secretary University Extension and High School Inspection, Adm. 203, 1124 N street (Adm.).
- Thompson, Harry Landis, B. Sc., Assistant in Pharmacy, 231 South Fifteenth street.
- Thornburg, Bertha Wilhelmina, Secretary Geological Survey, 2425 O street.
- Tibbets, Addison Seabury, B. C. E., Lecturer on Professional Ethics, Richards Block (L).
- Tobiska, Joseph William, B. Sc., Assistant in Chemistry, 1437 Q street.
- Towne, Solon Rodney, A. M., M. D., Professor of Hygiene and State Medicine, 446 Brandeis Building, Omaha (M).
- Truelsen, Thomas, M. D., Instructor in Physical Diagnosis and Clinical Assistant in Medicine, 587 Brandeis Theater Building, Omaha (M).
- Trumbull, Robert Samuel, A. M., Adjunct Professor of Agricultural Chemistry (1910, 1908), E. S. 202, 3002 W street (A).
- Tuckerman, Louis Bryant, Jr., A. B., Associate Professor of Theoretical Physics (1913, 1906), B 119, 2023 South Twenty-fourth street (E, G).
- Tuttle, Samuel Johnson, A. M., LL. B., Professor of Law (1909, 1909), L, Security Mutual Building.
- Virtue, Geo. Ollen, Ph. D., Professor of Political Economy and Commerce (1909, 1909), U 101, 1415 C street (AS).
- Vore, Juliet Mitchell, Assistant in Registrar's Office, 640 South Thirtieth street (Adm.).
- Voss, Adolph Max, A. B., Assistant Inspector of Accredited Schools, Adm. 203, 2525 Vine street (Adm.).
- Votaw, William Ward, Assistant Superintendent of Grounds and Buildings, Adm. 207, 3044 Q street (Adm.).
- Waite, Herbert Harold, A. M., M. D., Professor of Bacteriology and Pathology (1907, 1902), N 306, 2144 B street (AS, M, G).
- Walker, Elda Rema, Ph. D., Associate Professor of Botany (1913, 1906) and in charge of Botanical Library, N 103, 245 North Twenty-fifth street (AS).
- Walker, George Herman, M. D., Adjunct Professor of Anatomy (1909, 1909), M 300 Ganter Building (M, AS).
- Walker, Leva Belle, A. M., Assistant Professor in Plant Pathology (1913, 1907) and in charge of Botanical Storeroom, N 103, 245 North Twenty-fifth street (AS).

- * Wallace, Charles William, Ph. D., Professor of English Language and Literature (1912, 1901), L 301, (AS, G).
- Warren, Charles Raymond, Clerical Assistant in Secretary's Office, 1227 S street (Adm.).
- Weatherwax, James Lloyd, A. B., Assistant in Physics (1912, 1912), Y. M. C. A.
- Webster, Edith Lenora, A. B., Instructor in Geology (1912, 1909), Mus. 201, 534 North Twelfth street (AS).
- Webster, Hutton, Ph. D., Professor of Social Anthropology (1908, 1907), U 103, 641 South Thirteenth street (AS, G).
- Wekesser, Henry Peter, Ph. C., M. D., Demonstrator in Anatomy, M 311, 514 First National Bank Building.
- Welch, J. Stanley, B. Sc., M. D., Instructor in Physical Diagnosis (1911, 1911), 514 First National Bank Building, 1938 Washington street (M).
- Westermann, Max, Assistant Secretary of the Board of Regents, Adm. 102, 1535 C street (Adm.).
- † Westgate, Vernon Vilas, A. M., Assistant Professor of Horticulture (1910, 1908), Hort. H., 1431 R street (A).
- Wherry, William Penaluna, M. D., Instructor in Laryngology and Rhinology, 471 Brandels Building, Omaha (M).
- White, George Cleveland, A. M., Assistant Professor of Dairy Husbandry (1912, 1912), D. H., 3220 Starr street (A).
- Wiese, Otto, B. Sc., Instructor in Chemistry, C, 627 South Twenty-eighth street.
- ‡ Wilcox, Edwin Mead, Ph. D., Head Professor of Agricultural Botany and Botanist of the Experiment Station (1911, 1908), P. I., 3261 R street (A, G).
- Willard, William Albert, Ph. D., Professor of Histology and Embryology (1909, 1902), N 204a, 1445 South Sixteenth street (AS, M, G).
- Williams, Cyrus Vance, A. M., Superintendent of Curtis Agricultural School (1913, 1913).
- Williams Terry Arthur, Voucher Clerk, Secretary's Office, A 102, 3205 Vine street (Adm.).
- Willis, Eunice, Assistant in Stenographic Bureau, Adm. 206, 2228 S street (Adm.).
- Wilson, Ervin Fillmore, B. Sc., Instructor in Chemistry (1911, 1911), C, 1437 Q street (AS).
- Wilson Harriet, A. B., Library Assistant, L, 1410 Q street (Adm.).
- Wilson, Henry H., A. M., LL. M., Professor of Law (1900, 1891), Law Bulding, 1848 C street (L).
- Wolcott, Robert Henry, A. M., M. D., Junior Dean of the College of Medicine at Lincoln and Head Professor of Zoology (1913, 1894), N 206, 2100 B street (AS, M, T, G).
- Wolfe, Harry Kirke, Ph. D., Head Professor of Philosophy (1909, 1906), L 111, 1727 J street (AS, G, T).
- Wood, Ivan Daley, B. Sc. in C. E., Instructor in Farm Drainage and Rural Architecture (1912, 1912), J. P. 201, 1436 S Street (A).
- Worthley, Evans Alvah, A. B., Fellow, Department of Political Science and Sociology, U 101, 717 North Twelfth street.
- Young, G. Alexander, M. D., Instructor in Mental and Nervous Diseases, Omaha (M).
- Young, Horace J., B. Sc., Assistant Professor of Agronomy (1913, 1911), E. S. 106, 405 West Nineteenth street, University Place.
- Zimmer, John Todd, A. M., Field Expert in Entomology (1911, 1911), Forty-second and Holdrege streets (A).
- Zimmer, Mary Virginia, A. B., Instructor in Mathematics, Agricultural High School, Agr. H. 207, Forty-second and Holdrege streets (A).

* Leave of absence.

† Resigned.

‡ Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the Experiment Station.

THE UNIVERSITY YEAR

The year's work of the various colleges and schools of the University in general falls into the following subdivisions:

The First Semester, beginning the third Wednesday of September, and continuing eighteen weeks. The Mid-Winter Commencement, for those finishing their work at the end of a first semester, is held on University Charter Day (February 15), except when it falls on Saturday or Sunday, in which case the exercises are held on the preceding Friday or the succeeding Monday.

The Second Semester, beginning about February 1, and continuing eighteen weeks. The Spring Commencement, for those completing a course at the end of a second semester, occurs on Thursday of the week of the regular June meeting of the Board of Regents. This meeting is held on the first Tuesday after the first Wednesday in June of each year.

The Summer Session, usually beginning the week following the spring commencement and continuing eight weeks. Graduation exercises for those completing their University course at the end of a summer session are held on the last Friday of the summer session.

ADMISSION TO THE UNIVERSITY

Admission to the University is gained only through registration in some one of its seven colleges or four schools. The requirements for admission to these vary only in small degree, and may also be found by consulting the portion of the catalog devoted to the college or school which the student desires to enter. The requirements for admission to the various colleges are as given below. An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks; in laboratory courses without recitation, the equivalent of fifteen single periods each week are required.

The following table of entrance requirements became effective September 1, 1912, for all undergraduate colleges of the University:

Required Subjects—	Points
English	4
History (European) (a).....	2
Language (Foreign) (b).....	6
Mathematics (c)	4
Science (Laboratory) (d).....	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school	12
Total.....	30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c) Mathematics: For entrance to the College of Agriculture four points are required. Advanced Algebra and Solid Geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- (d) Science: It is recommended that Physics be offered in meeting the science requirement.

Accredited Schools. The University maintains a list of "accredited" secondary schools whose graduates are admitted to any college or school of the University (and to nearly all of the colleges or universities of the United States) without entrance examinations in those subjects whose completion within such schools is properly certified. Unless a graduate of an "accredited" school, a candidate for admission must be prepared to take entrance examinations in those subjects in which he desires entrance credits. "Accredited" schools are such as are, under annual inspection by the University inspector of accredited schools, found to have a well-balanced program of studies, satisfactory laboratory equipment and library facilities, and a teaching force adequate in number and competent in scholarship and professional training to accomplish the work they are

undertaking. This list of accredited schools is published yearly in the University Calendar, the University Journal, and the High School Manual. At present there are two lists of accredited schools: (1) those which prepare fully for the first year of University work; and (2) those three-year schools whose work is acceptable and whose graduates may enter the University without examination by completing the required entrance credits in a four-year accredited school. Any public or private high school or academy desiring to be placed on the accredited list should make request to the Inspector of Accredited Schools. The High School Manual, giving detailed information in regard to accredited schools, including general and departmental suggestions as to courses of study and methods of instruction, and the list of accredited schools, is sent upon application to the Registrar.

Certificates of graduation from schools which are members of the North Central Association of Colleges and Secondary Schools and of Accrediting Associations of equal rank will entitle the holder to admission without examination.

Four-Year Accredited Schools. The following four-year secondary schools approved, are accredited to the University for the year 1912-1913 to receive not to exceed 28 to 32 points of entrance credit, according to the work of the individual graduate:

Adams	Beaver Crossing	Central City
Ainsworth	Bellevue Academy	Chadron
Albion	*Blair	Chester
Alliance	Bloomfield	Clarks
Alma	Bloomington	Clay Center
Ansley	Blue Hill	*Columbus
Arapahoe	Blue Springs	Cotner Academy
Arlington	Brady	(Bethany)
Ashland	Bridgeport	Cozad
Atkinson	Broken Bow	Crawford
*Auburn	*Brownell Hall	-Creighton
*Aurora	(Omaha)	Creighton Academy
Bancroft	Burwell	(Omaha)
Battle Creek	Butte	*Crete
*Beatrice	Cambridge	Culbertson
Beaver City	Cedar Rapids	Dana Academy (Blair)

* Accredited by the North Central Association of Colleges and Secondary Schools for 1913.

Davenport	Humboldt	O'Neill
*David City	Immaculate Conception	Ord
Diller	Academy (Hastings)	Orleans
*Doane Acad. (Crete)	Indianola	Orleans Seminary
Dodge	*Kearney	Osceola
Edgar	Kenesaw	Overton
Elgin	Kimball County	Oxford
Elmwood	Laurel	Papillion
Emerson	Lawrence	*Pawnee City
Exeter	Lexington	Pender
*Fairbury	*Lincoln	Pierce
Fairfield	Louisville	Plainview
Fairmont	Loup City	*Plattsmouth
*Falls City	Luther Academy	Ponca
Franklin	(Wahoo)	Randolph
*Franklin Academy	Lyons	Ravenna
*Fremont	*McCook	Red Cloud
*Friend	Madison	Sacred Heart Academy
Fullerton	Merna	(Omaha)
Gates Academy	Minden	Sacred Heart High
(Neligh)	Mt. St. Mary's Semi-	School (Omaha)
*Geneva	nary (Omaha)	St. Catherine Academy
Genoa	*Nebraska City	(Jackson)
Gibbon	*Nebraska Military	St. Edward
Gordon	Academy (Lincoln)	St. Mary's Academy
Gothenburg	*Nebraska Wesleyan	(O'Neill)
*Grand Island	Academy (University	St. Paul
Grand Island Academy	Place)	St. Theresa's High
Greeley	Neligh	School (Lincoln)
Gretna	Nelson	Sargent
Guide Rock	Newman Grove	Schuyler
Hartington	*Norfolk	Scottsbluff
Harvard	North Bend	*Seward
*Hastings	*North Platte	Shelton
*Hastings Academy	Oakdale	Sidney
*Havelock	Oakland	Silver Creek
*Hebron	Ogallala	*South Omaha
*Holdrege	Ohioa	Spalding Academy
Hooper	*Omaha	Spencer

* See foot-note on page 33.

Springfield	*Tecumseh	Wayne
Stanton	Tekamah	Weeping Water
Sterling	Tilden	Weeping Water
Stromsburg	Trenton	Academy
*Superior	Ulysses	West Point
Sutton	*University Place	Wilber
Syracuse	Valentine	Wisner
Table Rock	Valley	Wood River
*Teachers College High	*Wahoo	Wymore
School, The Univer-	Wakefield	*York
sity of Nebraska		

By approved action of the University Senate, the following has been adopted:

1. Twenty-eight points shall be the minimum requirement for conditional admission to the Colleges of Arts and Sciences, Engineering, and Agriculture, in the University.

2. There shall be maintained a list of Junior Accredited Schools, on the basis of three years of secondary school work. The graduates of these schools may receive conditional admission to the University upon the completion of sufficient additional work in an accredited school to secure the minimum of twenty-eight points.

Junior Accredited Schools. The following three-year secondary schools approved, are accredited to the University for the year 1912-1913, to receive from 22 to 28 points of entrance credit, according to the length of the course and the work of the individual graduate:

Bartley	Curtis	Grafton
Beemer	Dawson	Greenwood
Benkelman	DeWitt	Hardy
Benson	Doniphan	Herman
Bertrand	Douglas	Hickman
Brock	Dunbar	Holbrook
Callaway	Edison	Howells
Campbell	Eustis	Humphrey
Cedar Bluffs	Ewing	Jackson
Clarkson	Florence	Kearney Military
College View	Ft. Calhoun	Academy
Cook	Gering	Leigh
Craig	Giltner	Liberty

* See foot-note on page 33.

Lynch	Pilger	Stuart
McCool Junction	Republican City	Sutherland
Mason City	Riverton	Talmage
Mead	Rulo	Tobias
Milford	Rushville	Utica
Mitchell	Scribner	Waterloo
Monroe	Shelby	Wausa
Morrill	Shickley	Western
North Loup	Sioux	Weston
Orehard	Stella	Wilsonville
Osmond	Stratton	Winside

REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. This should be done at least one month in advance of the opening of the candidate's first semester. On the opening or registration days of the semester, the candidate presents himself in person, at the Registrar's office (Administration Hall), where he receives instructions as to such other steps as may be necessary to complete his registration. Registration is governed by certain regulations and restrictions in each college and school of the University, and those of the college the candidate expects to enter should be studied carefully before the work of registration is undertaken.

FEES AND EXPENSES

Fees. Fees of varying amount are charged for various purposes in all of the colleges and schools of the University. The amount in any college or school may be found by consulting the portion of the catalog devoted to that college or school. All fees must be paid to the secretary at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance, the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University.

UNIVERSITY FEES*

General

AGRICULTURAL HIGH SCHOOL

Winter course, registration	\$4.00
Regular course, incidental, per year.....	6.00
Special registration fee.....	2.00
(Laboratory fees according to course.)	

CERTIFICATE

For all special courses.....	1.00
Teachers' certificate (with cover).....	2.00

DIPLOMA

Diploma fee, first degree.....	5.00
Diploma fee, for advanced degrees.....	10.00
Diploma fee, <i>in absentia</i> or <i>cum laude</i> , additional.....	10.00

EXAMINATION (SPECIAL)

Each course, general colleges.....	1.00
Each subject, Law College.....	2.00
Advanced standing, Law College.....	10.00

FINE ARTS

For Students Who Have Not Satisfied Entrance Requirements

Drawing and Painting, including use of studio:

One lesson a week, each semester.....	10.00
Students under 16 years, one lesson a week, each semester.....	6.00
Two lessons a week, each semester.....	18.00
Three lessons a week, with use of studio daily, each semester...	25.00

China Painting, including use of studio:

One lesson a week, each semester.....	12.00
Two lessons a week, each semester.....	23.00
Three lessons a week, each semester.....	33.00

TEACHERS COLLEGE HIGH SCHOOL

Tuition, each semester.....	13.50
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Tuition,† special subjects:

One subject, \$8; two subjects, \$15; three or more subjects, \$20.

* No checks or drafts are accepted by the Secretary. Payment must be made in cash.

† These are specially arranged classes in preparatory subjects for University students who are required to make up one or more entrance credits.

THE UNIVERSITY OF NEBRASKA

INCIDENTAL

Incidental fee, each semester.....	\$3.00
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LAW, COLLEGE OF

Tuition, first semester.....	25.00
Tuition, second semester.....	20.00
Tuition, for one semester only.....	25.00
Tuition, special students, or one topic, each semester.....	12.00

LIBRARY

Library fee, each semester.....	1.00
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MATRICULATION

Matriculation fee	5.00
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MEDICINE, COLLEGE OF

(First two years)

Tuition, first semester.....	25.00
Tuition, second semester.....	20.00
Tuition, for one semester only.....	25.00
(Laboratory fees according to course.)	

(Last two years)

Fees for all required exercises, including all laboratory and clinic fees, each year	80.00
Breakage deposit, each year.....	10.00
Examination fee, each year.....	10.00

NON-RESIDENT

Non-resident fee, undergraduate, each semester.....	15.00
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PHARMACY, SCHOOL OF

Tuition, first semester.....	20.00
Tuition, second semester.....	15.00
Tuition, for one semester only.....	20.00
(Laboratory fees according to course.)	

REGISTRATION

Special registration fee.....	3.00
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Laboratory

AGRICULTURAL CHEMISTRY

Courses A, B, \$3; D, \$4; 2, 4, \$5; 5, 6, \$10.

GENERAL INFORMATION

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AGRICULTURAL ENGINEERING

Courses 1, 2, 11, \$3; 3, 5, \$1; 4, 18, \$2; 9, 10, 12, 16, \$4.

ANATOMY

Course 1, \$17; 2, \$10; 3, \$5; 4, 8, \$3; 11, 12, (graduated); 15, 16, \$15.

APPLIED MECHANICS

Courses 17, 20, \$3; 15, 18, \$4; 25, \$5.

BACTERIOLOGY AND PATHOLOGY

Course 1, \$8; 2, \$10; 2a, 3, 4, \$4; Dental Bacteriology, \$3.

BOTANY

Courses 1, 2, 15, 16, 21, 22, 25, \$2; 3, 4, 5, 6, 19, 20, 23, 24, \$3; 13, 14, 31, 32, 33, 34, \$1; A, \$4; B, 39, 40, 41, 42, 43, 44, 47, 48, 49, 50, for each credit hour a semester, \$1.

CHEMISTRY

Courses A, B, 1, 2, 21, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2, 3, \$10; 14, \$8; 20, \$4; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1.

CIVIL ENGINEERING

Courses 5a, 6a, 8, 30, \$3.

ELECTRICAL ENGINEERING

Courses 8, 8a, 9, 10, \$5; 9a, 10a, \$2.

ENTOMOLOGY

Courses 1, 2, 5, 6, 7, 8, \$2; 3, 4, 9, 10, 11, 13, \$1; 15, 16, 17, 18, for each credit hour a semester, \$1.

FORESTRY

Courses 3, 4, 5, \$2.

GEOGRAPHY AND CONSERVATION

Courses 1, 2, 5, 6, 7, 8, 21, 22, 23, 24, 28, \$1.

GEOLOGY

Courses 1, 1a, 2, 13, 18, 25, 27, 31, 33, 34, \$1; 15, 16, \$2.

HISTOLOGY AND EMBRYOLOGY

Courses 1, \$4; 2 (according to credit), \$3 to \$6; 1a, 11, 13, 15, \$2; 12, \$4; 11a, 14, \$3.

HOME ECONOMICS

Courses 1, 2, 7, 8, 11, 12, 15, 16, \$2; 3, 4, \$3; 5, 6, \$5; Agricultural High School, each year, \$2, excepting Course E, \$2 and F, \$3.

THE UNIVERSITY OF NEBRASKA

MECHANICAL ENGINEERING

Courses 1, 3, 5, 16, 17, \$6; 2, 4, 15, \$4; 2a, 3a, 18, \$2.

PHARMACOLOGY

Course 1, \$5; 2, \$10; 4, \$2; 5, 6, \$3.

PHARMACY

Courses 21, 22, 23, 24, \$7; 28, \$6; 29, \$8; 31, 32, 33, 34, \$5; 40, 41, 42, \$3

PHYSICS

Courses 1, 2, 3, 4, 6, 11, 12, 13, 14, 17, 18, \$4.

PHYSIOLOGY

Courses 1, 2, \$5; 12, \$9; 13, \$6; 14 (for Medics), \$2.

PSYCHOLOGY

Course 1, \$1.

ZOOLOGY

Courses 3, 4, 7, 12, 15, \$2; 1, 1b, 2, 5, 13, \$3; A, \$4; 6, \$5; 21, 22, 32, 34, 36, \$1; 9, 10, 17, 18, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

Board, Room, Employment. The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

The University Cafeteria. The University Cafeteria, under the direction of the Young Men's Christian Association in the Temple building, is open to both men and women of the University. A separate dining hall is provided for the young women. This enables the students to obtain wholesome food at a minimum cost.

UNIVERSITY STUDENT ORGANIZATIONS

Religious. The Young Men's and Young Women's Christian Associations, non-sectarian and voluntary organizations of Christian men and women, members of the University, organize and conduct Bible study among the students, hold public meetings, help students to find suitable rooming and boarding places, give free aid to students in search of employment and publish an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of either the Young Men's or the Young Women's Christian Association, Station A, Lincoln, Nebraska. The Students Volunteer Movement is composed of those who have declared their purpose to become missionaries, and meets once a week for devotional and critical Bible study.

Literary and Social. The Palladian and the Union are open literary societies meeting weekly on Friday evenings in their rooms in the Temple. The University Girls' Club is an organization formed to cultivate friendly and helpful relations among women students irrespective of department, course of study, or church or society affiliations. All women students and women members of the faculties are eligible to membership. The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election. The English Club is a writers' club, composed of advanced students and of instructors interested in writing. The club meets regularly to hear and discuss contributions by its members. Membership is by election. The Deutsche Gesellige Verein, the German Club, the Komenian Club and the Tegner Society are literary and social organizations, whose main purpose is the study of history and language of Germany, Bohemia, and Scandinavia, respectively. The Latin Club, composed of advanced students in Roman History and Literature, holds regular meetings.

Scientific. The Graduate Club, the Debating Club, the Agricultural Students' Association, the Botanical Seminar, the Chemical Society, the Chemical Journal Club, the Engineering Society, the English and Latin Seminaries, the Latin and Physics Colloquia, the Microscope, Forestry and Zoological Clubs are more specially collegiate or departmental organizations, concerning which information is given in those portions of the catalog devoted to the different colleges and schools.

Musical. The University Chorus, open to all students, gives each year several cantatas and oratorios and participates in the May Music Festival. The Cadet Band, a military band, gives several home concerts annually and

furnishes music on occasions of general University interest. The Glee and Mandolin Clubs give concerts in Lincoln and throughout Nebraska and adjoining states.

Military. The Pershing Rifles is an organization of cadets composed of the best-drilled men in the University Cadet Battalion. Membership is by election. The Workizer Rifles is a similar organization in the Agricultural High School Cadet Battalion.

HONORS AND PRIZES

Fellowships and Scholarships, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate College only. Fees will be required for all undergraduate laboratory work.

These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state, but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the announcement of the various colleges.

The William Jennings Bryan Prize. For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. For detailed information apply to the professor of American history.

Prizes for Excellence in Bohemian, offered by the Bohemian Council of Higher Education. (1) To the student of the first year Bohemian class who attains the highest rank during both semesters, the Council of Higher Education offers a prize of books representing the best Bohemian literature. In 1911-1912 this prize was awarded as follows: First, Albert M. Smrha; second, Rose A. Shonka; third, Bertha L. Spirk and Theodore Kubik.

The Andrew Lanquist Prize in Swedish Language and Literature. A prize of twenty-five dollars, the gift of "Föreningen för Svenskhetens bevarande i Amerika," is awarded yearly to the student who receives the highest standing in Swedish language and literature. The prize is awarded under the following regulations:

1. The student shall have pursued for at least one year the most advanced courses in Swedish given at the University.
 2. He shall be taking at least twelve hours work in the University.
 3. His general average in all subjects shall be 80 per cent or above.
- In 1911-1912 this prize was awarded to Maurice Weseen and Oscar Alexis.

Athletic and Military Trophies. Cups or other trophies are offered for the winners in the annual Class Field Day, Charter Day and Ivy Day contests, Company Drill, Individual Infantry Drill, and Individual Company Drill and Pershing Rifle contests.

Other Prizes are offered by the College of Law and the College of Medicine for excellence in the work of these colleges. See College of Law and College of Medicine.

Honorary Societies. Phi Beta Kappa, founded at William and Mary College in 1776, has for its object the promotion of scholarship among the students and graduates of American colleges; the Alpha of Nebraska chapter, founded in 1896, annually elects to its membership the one-tenth to one-sixth of the graduating class whose scholarship rank is highest. Sigma Xi is a similar organization for the encouragement of original investigation in Science, pure and applied, and Theta Kappa Nu for promotion of scholarship in Law. Delta Sigma Rho is a national society organized in 1906 by universities of the West to promote among college students the art of effective public speaking and debate, and its membership is confined to authorized representatives of universities and colleges in intercollegiate contests in debate or oratory. Phi Alpha Tau is an inter-collegiate honorary fraternity, organized by members of the University Debating Squad in 1906 to promote the art of public speaking and debate, and confines its membership, which is limited and by election, to students who have exhibited special interest in public speaking and debate and who have shown special aptitude for that work.

ATHLETICS

The Department of Athletics, under the supervision of Ewald Ortwin Stiehm, A. B., Director and Professor of Athletics, has jurisdiction over all branches of competitive athletics.

The aims of the department are the development of organic power, the basis of vitality, the prerequisite to physical and mental efficiency; to secure and maintain a harmonious muscular development and a reasonable degree

of bodily skill and grace; to provide an incentive and an opportunity for every student to secure physical recreation as a balance to the sedentary demands of university life; to conserve the social and moral values of games and sports; to establish high ideals and efficient administration of athletics.

The Grant Memorial Hall is used jointly by the Military Department, Physical Education Department, Girls' Gymnasium and Department of Athletics. On the ground floor are offices, locker-rooms, bathrooms and storerooms. On the second floor there are two halls used for purposes of military drill, calisthenics, and games.

An athletic field is provided for the use of men students and all intercollegiate and other games and meets are held there. The field is equipped with two large grandstands, a running track, tennis courts, baseball diamond, football field, and other necessary features.

Competitive athletics are not compulsory but optional to all students complying with the scholastic eligibility requirements.

Members of all University athletic teams are required to take a physical examination at the beginning of the college year or at the beginning of the semester in which that training begins.

No student is permitted to participate in competitive games of an intercollegiate grade unless he is physically fit for the same as determined by the examination. Every precaution is taken to prevent overtraining, exhaustion or unnecessary strain.

The University is a member of the Missouri Valley Conference Athletic Association and maintains representative teams in all major intercollegiate sports. No student may be a member of an intercollegiate team unless he is an *amateur athlete* and not until he has been a year in the University, and has received a passing grade in 12 hours of the work of the semester previous to the time he desires to compete.

The intercollegiate sports are under the government of the athletic board, a committee of six members of the faculty, one alumnus and five students.

All coaches and assistants are members of the University faculty.

LOAN FUNDS

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are

limited to students in the Engineering College. The interest received from the loaning of this money goes to increase the fund. The full rules for its administration and application blanks may be obtained from the office of the Secretary. Loans will only be made to students in need of assistance and to those who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits for temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or leaves school.

Mrs. Ida C. Carter, of New York City, has arranged to give a fund of \$500 to be known as the A. E. Carter Loan Fund, in honor of her husband who was a graduate of the College of Engineering. This fund is available for students of that college only.

PUBLICATIONS

General University Publications. In addition to its annual Calendar and other periodic Bulletins, the University publishes monthly (except July and August) the University Journal, devoted to the relations of the University with the secondary schools of the state and with the University Alumni. General student publications include the Daily Nebraskan, The Cornhusker (annual), and the Students' Handbook (annual). One number of the Bulletin of the University is entitled The High School Manual, and is devoted to high school problems.

Departmental or Special Publications are the University Studies (see the Graduate College), Studies from the Zoological Laboratory, Reports of the Botanical Survey of Nebraska, the Flora of Nebraska, and the Nebraska Geological Survey. The Nebraska Engineering Blue Print is a semi-annual publication by the Engineering Students. The Forest Club Annual is published by the Students in Forestry.

MISCELLANEOUS INFORMATION

Students' Mail sent direct to the University should be addressed "Station A, Lincoln, Nebraska." This United States post-office is in effect part of the University, occupying University Hall 104, convenient to all students.

Convocation. University convocations are held regularly in the Chapel at eleven o'clock Tuesday and Thursday. An interesting address on some important topic of the time or a musical program forms the nucleus of these exercises. Special convocations are called as occasions of importance arise.

Women's Parlors. In Soldiers' Memorial Hall a beautiful parlor has been furnished by members and friends of the University for the use of all women members of the University without reference to religious or other affiliations. Also, a study room open to all University women is provided in the basement of University Hall.

Care of the Sick. The University much needs an infirmary for the care of students when ill. Such students are, however, carefully provided for even at present, on application to the Chancellor, at whose office all cases of serious illness should be reported.

Visitors to the University. Visitors are always welcome. High-school classes, clubs, or parties should, a few days in advance, inform the Registrar of their coming.

GENERAL INFORMATION

Meetings of State Societies. Many state societies hold their annual meetings at the University. The University is always pleased to extend its hospitality and the use of its buildings to any of these or to any similar organization.

The Alumni Association, organized in 1874, is composed of the graduates of the University, including graduates receiving higher degrees. The annual meeting is held the day before Commencement Day in June. A secretary has been secured who is now giving full time to the work of the Association.

RULES AND REGULATIONS GOVERNING STUDENTS

The proper University authorities have established several definite rules and regulations for the government of student conduct and activities within the University. Each student is expected to familiarize himself with these rules and is held responsible for compliance with their provisions. The rules and regulations are as follows:

Registration

1. Each student should register at the Registrar's office at the beginning of each semester on one of the days set apart for registration. To promote

prompt registration a fee of three dollars (\$3) is charged a student who, unless excused by the Chancellor, for any reason seeks to register (or pay regular, required fees) later.

2. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in registration once made, dropping or adding a study, is regarded as a re-registration.

3. No first or second year student (freshman or sophomore) may register for more than five subjects (exclusive of drill or physical training). No first year student may register for more than 17 credit hours, except on written permission of the dean of his college, and then for a maximum of 18 credit hours. All students above first year who have attained an average grade of 80 per cent during the previous year may register for 18 credit hours.

3a. No first or second year student may register for more than one one-hour course (exclusive of drill and physical training) in any one semester; and no third or fourth year student may register for more than two one-hour courses in any one semester.

4. A student who fails in a required subject must register for that subject again the first time it is offered.

5. A student who is conditioned ("C") or incomplete ("I") in a subject must remove the condition or incomplete by the end of the first semester in which that subject is again offered or it becomes a failure.

6. A student cannot attend a class for which he is not registered. The official certificate of registration, signed by the Registrar, is the only evidence of registration to be accepted from the student by an instructor. Credit is not granted for a subject pursued without registration.

7. No student is allowed to change from one group of studies to another or from one college to another without written permission by the dean of each college concerned. A student changing college must also pay a new matriculation fee of five dollars (\$5).

8. A student who, by virtue of special circumstances, is allowed to register for less than the minimum twelve (12) hours required of regular students, receives this permission only for such time as the special conditions continue. No person is allowed to abuse the privilege of registering as a special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics or for any other reason.

9. Every detail of registration and record from the time the student leaves the high school until he graduates from the University, together with

the interpretation of all the rules relating thereto and the publication of the same, are under the supervision of the Registrar, who is responsible directly to the Chancellor.

Military Drill and Physical Training

10. Each undergraduate man in the University proper is required to receive military instruction during four semesters. Each man in the Agricultural High School shall receive military instruction during his attendance, up to a total of four semesters. Excuses from this requirement are granted to either class of students only on the grounds of conscientious scruples physical disability, or other reasons equally valid. Such excuses shall be granted only upon written application to the commandant of cadets, in whom shall be vested the power to decide such cases. Such decisions may be appealed to the Chancellor only on presentation by the student of a written statement from the commandant, containing the facts in the case and the reasons for refusing to grant the excuse. Military drill service is not required from non-matriculated students attending the short courses in agriculture.

11. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man must fulfill his requirement in his Freshman and Sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

All undergraduate women students of the University must fulfill the requirements in physical training in the Freshman and Sophomore years unless reprieved or excused.

Attendance

12. Regular attendance is required at all recitations, laboratory and field work.

13. All absences are reported to the Registrar weekly by instructors.

14a. Temporary leave of absence may be granted a student by the dean of his college. This leave of absence is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

14b. Each unexcused absence in any subject may, in the discretion of the instructor, deduct three points from the student's semester grade in that subject.

15. Permission to withdraw from the University before the close of a semester is granted by the Registrar.

Examinations

16. Examinations or tests in every class in the University are held at the option of the instructor each semester as follows: (1) at the middle of the semester; (2) at the close of the semester.

17. Sessions of class work of the second semester shall be held regularly till 6 p. m. Friday of the week preceeding commencement week. Semestral or final examinations in any semester, if held, shall be during the last class session. Individual examinations cannot be demanded by the student as a matter of right. Such examinations are permitted, if at all, only as a matter of comity. They are given by the permission and at the convenience of the instructor after the regular examination of the class or section. The instructor's permission being obtained, the student desiring individual examination must pay the required fees to the Secretary. On presentation of a receipt therefor to the instructor, the latter is authorized to proceed with the examination.

18. No student is allowed to take any book or paper into the examination room unless the instructor expressly so directs.

Reports—Standing

19. On the attendance and standing of each student in each course the instructor makes to the Registrar the following regular reports:

a. At the end of each week he reports the absences for the week and all cases of delinquency.

b. At the middle of the semester he reports all students who are below a passing grade as shown by class-room work and the mid-semester examination or test.

c. At the end of the semester he reports the proficiency each student has attained. All grades above passing (60) are reported to the Registrar in figures, either in straight percentages or in multiples of five. Below passing the following are the markings: F—Failure (below 50); C—Conditioned; I—Incomplete. Also, A—Withdrew in good standing; D—Delinquent at time of withdrawal.

Honorable Dismissal

20. Students not minors being in good and honorable standing may secure

honorable dismissal from the University at their own request, and minors at the request of parents or guardians.

Suspension—Expulsion

21. Whenever at the middle or end of any semester a student is delinquent in half or more of his hours of registration, his name is automatically dropped from the rolls of the University. Such delinquent student may be reinstated by the Committee on Delinquent Students. A student may be refused registration, suspended, or expelled for infringing the good order and comity of the University, as by dishonesty in written work, the acts inhibited in section 25 below, or any conduct injurious to the work or the good name of the University.

Discipline

22a. A student who, in any semester, is not satisfactorily carrying at least twelve (12) hours is debarred from representing the University that semester on any athletic or debate team or board, on a glee, mandolin or dramatic club, on the staff of any college publication or in any other University organization; moreover, a student who fails to pass in twelve (12) hours at the end of a semester is debarred from representing the University in any capacity the semester following. In case a student in any of the above named student enterprises fails, any semester, to carry satisfactorily the work or any part thereof for which he is registered, the Committee on Delinquent Students may at its discretion lessen the hours of such student's registration.

22b. Women students in the University shall not take part in out-of-town performances, such as dramatic and glee club presentations, elocution recitals, etc., during the regular sessions of the University, and at other times only after permission is granted by the Committee on Student Organizations and Social Functions.

22c. All University functions, including social gatherings of departmental clubs, shall be held on Friday and Saturday evenings.

All meetings of the following named University clubs and organizations holding later than 7:30 p. m. shall occur on Friday and Saturday evenings except by special permission of the Committee on Student Organizations:

Agricultural Club, Botanical Seminar, Chemistry Club, Dramatic Club, Electrical Engineering Society, English Club, Engineering Society, Entomological Society, Forestry Club, German Club, Germanistische Gesellschaft, Komensky Club, Latin Club, Mechanical Engineering Society, Medical

Society, Pharmaceutical Society, Platform Club, Students' Debating Club, Tegner Society.

23. Whenever a student is dropped from the University on account of vicious or wanton delinquency his name is published.

Dishonesty in Written Work

25. The case of any student detected in dishonestly giving or receiving aid during an examination must be immediately reported to the dean of his college by the instructor in charge of the examination or by the head of the department with a succinct account of the evidence in the case. In cases of clear guilt the deans affix penalties in accordance with deserts.

Dishonesty in written work, themes, essays, reports, thesis and the like, is treated in the same way as dishonesty in examinations. The turpitude consists in the presentation as one's own of work or results really borrowed in whole or in part from another.

Prohibitions

26. Students must not frequent gaming houses or saloons, or brothels, or engage in gambling, or use intoxicating drinks, or do any other acts inconsistent with good morals. A student must not neglect a call of the Chancellor, Dean, Registrar, or other University officer, or of any professor in the faculty of a college in which he is registered.

Petitions—Meetings

27. The right of respectful petition shall be neither denied nor abridged by the regents, faculties, or other University authorities. But no extraordinary meetings of students shall be held on the University grounds or within any University buildings for any purpose whatever, except after and in pursuance of a written or printed notice or call stating clearly the business of such meeting. Said notice must be signed by at least three students, approved in the executive office, and be posted openly on the University bulletin board. Such meetings shall always be open and subject to immediate adjournment by the Chancellor in case of disorder.

Political Gatherings

28. It is the policy of the University to promote the fullest and freest discussion of the matters which relate to the public welfare, but at the same time to avoid the use of its property for the partisan promotion of any subject which is under controversy. Hence political or other meetings designed to influence elections directly are prohibited in University build-

ings. This shall not be interpreted as forbidding the discussion of public topics in an academic way, nor shall it be interpreted as preventing students from organizing freely to promote their political ideas, provided such meetings as they may hold are not conducted on University premises.

Boards of Control

29. The University Athletic Board, composed of six faculty members, one alumnus, and five student members elected annually, controls athletics in the University.

30. The University Debating Board, composed of seven faculty members (ex-officio) and of five student members elected annually, supervises all public debates between students of the University and other institutions.

31. The Student Publication Board, composed of five faculty members and three student members, has general oversight over all publications by University students.

Organizations, Social Functions

32. All non-athletic organizations and social functions are under the supervision of the Senate Committee on Student Organizations, which may enact such special rules, subject to the Chancellor and the Board, as it may deem necessary for the proper control of such organizations and functions. Organizations coming into financial relations with the public shall submit their accounts to this committee for audit not later than May 1st of each year. Failure to comply with this rule shall deprive the person or persons responsible of the right of honorable dismissal from the University. Supplies for students, of a semi-official character, shall be furnished through the office of the Purchasing Agent. No person registered in any secondary school of the University shall become a member of any fraternity or sorority.

Library and Use of Books

33. Any student regularly registered may take out two books at the closing hour of a day, such books to be returned promptly at the next opening hour. Only two books at a time may be taken out under this privilege.

On written permit from the head of a department any student may draw one book at a time to be kept not more than one week. Such permit is good only for books pertaining to the department issuing the permit.

A student leaving Lincoln for more than one week must on or before leaving return all the library books in his possession.

The following classes of books are not circulated: reference books shelved in reading room; periodicals, whether bound volumes or current numbers.

Books especially reserved for class use may not be taken out except over night.

Talking is not permitted in the library.

The library board may, on recommendation of the librarian, suspend from library privileges any person who persistently disregards these rules or in any way misbehaves.

Announcements—Notices—Residence

34. The residence of men and women students in the same lodging houses (as distinguished from families) is not approved and not, as a rule, permitted.

35. A landlady rooming women students is expected to provide for their use, till half after ten on Friday, Saturday, and Sunday evenings, or on two of these evenings, a reception room properly warmed and lighted.

36. Women students in these houses will receive gentlemen callers only in the reception rooms. Gentlemen will take notice and govern themselves accordingly.

37. Any official University announcement or notice is considered as duly published and as binding upon all students when it is placed upon the official bulletin board or when it is announced at convocation.

38. Emergency or special important meetings of the University body are called by the display of red-letter notices on all bulletin boards. Obedience to such calls is obligatory on all students.

39. No notice of a meeting of any class or any student organization can be placed upon any of the official bulletin boards unless countersigned by the Registrar.

40. No private advertising announcements can be placed upon any of the University bulletin boards.

The Graduate College

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University
Publisher.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate
College and Head Professor of the English Language and Literature.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.

JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.

FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural
Chemistry.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political
Science.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History
and Literature.

ERWIN HINCKLEY BARBOUR, Ph. D., Head Professor of Geology, and
Curator of the University Museum.

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and
Parasitology.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany
and Head Dean of the University.

GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.

WILLIAM CHARLES BRENKE, M. S., Ph. D., Professor of Mathematics.

JUDD NOBLE BRIDGMAN, M. S., Associate Professor of Civil En-
gineering.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and
Entomologist of the Experiment Station.

PHILO MELVYN BUCK, A. M., Professor of Rhetoric.

HOWARD WALTER CALDWELL, A. M., Head Professor of American
History.

ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.

LEON WILSON CHASE, B. Sc., Head Professor of Agricultural Engi-
neering.

GEORGE RICHARD CHATBURN, A. M., C. E., Head Professor of Applied Mechanics and Machine Design.

GEORGE EVERT CONDRA, Ph. D., Head Professor of Geography and Conservation.

CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.

BENTON DALES, Ph. D., Professor of Chemistry.

WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics, and Dean of the College of Arts and Sciences.

CHARLES LEE DEAN, B. Sc. in M. E., Associate Professor of Mechanical Engineering.

* WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry.

† LUCILE EAVES, M. S. C., Ph. D., Associate Professor of Practical Sociology.

CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics and Executive Dean.

MINNIE THROPP ENGLAND, Ph. D., Instructor in Political Economy.

FRED MORROW FLING, Ph. D., Head Professor of European History.

MILLER MOORE FOGG, A. M., Professor of Rhetoric.

CHARLES FORDYCE, Ph. D., Professor of Educational Theory and Practice and Dean of the Teachers College.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.

PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.

SHERLOCK BRONSON GASS, Ph. B., Assistant Professor of Rhetoric.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.

PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature and Director of the School of Fine Arts.

EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.

* Resigned.

† Leave of absence.

- JAMES DAVID HOFFMAN, M. E., Head Professor of Mechanical Engineering and Practical Mechanics.
- VERNON LEO HOLLISTER, E. E., Assistant Professor of Electrical Engineering.
- GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political Science and Sociology.
- ALICE CUSHMAN HUNTER, Ph. D., Adjunct Professor of Roman History and Literature.
- GUERNSEY JONES, Ph. D., Professor of English-American History.
- THEODORE ALEXANDER KIESSELBACH, A. M., Professor of Experimental Agronomy.
- JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.
- JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce and Director School of Commerce.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteorology, and Section Director of the United States Weather Bureau.
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.
- RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacodynamics.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- WALTER JEAN MORRILL, M. F., Professor of Forestry.
- CLARK EDMUND PERSINGER, A. M., Professor of American History.
- RAYMOND JOHN POOL, A. M., Associate Professor of Botany. Curator of the Herbarium.
- LOUISE POUND, Ph. D., Professor of the English Language.
- JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.

- CHARLES WILLIAM PUGSLEY, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science and Director Legislative Reference Bureau.
- CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.
- PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.
- OSCAR VAN PELT STOUT, C. E., Head Professor of Civil Engineering and Dean of the Engineering College.
- FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature.
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- LOUIS BRYANT TUCKERMAN, JR., A. B., Associate Professor of Theoretical Physics.
- GEORGE OLIEN VIRTUE, Ph. D., Professor of Political Economy and Commerce.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- ELDA REMA WALKER, Ph. D., Assistant Professor of Botany.
- LEVA BELLE WALKER, A. M., Adjunct Professor in Plant Pathology.
- * CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany and Botanist of the Experiment Station.
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.
- ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and Junior Dean of the College of Medicine.
- HARRY KIRK WOLFE, Ph. D., Head Professor of Philosophy.

* Leave of absence.

Graduate Council

Professors Chatburn, Frye, Grummann, Howard, Lees, Sherman, Skinner,
Wilcox, Wolfe.

Standing Committees

Examinations—Professors Wilcox, Howard.

Enrollment—Professors Lees, Skinner.

Publication—Professors Grummann, Frye.

Standardization—Professors Wolfe, Chatburn.

THE GRADUATE COLLEGE

Organization and History of the Graduate College. Graduate instruction in the University of Nebraska was organized in 1886. In September of this year courses were offered in thirteen subjects, including Sanskrit, Old French, Germanics, and Institutional History. In 1895 a Graduate School was organized, under a dean and a designated faculty. The number of students increased steadily, and in 1898 thirty-nine candidates received degrees. During the second period, lasting till 1909, many graduate subjects were added, including Astronomy, Bacteriology, Commerce, Education, English History, Geography, Physiology, and Sociology. In the legislative session of 1909 the charter of the University was amended, and the establishment of seven colleges, instead of the five colleges named in the charter, were authorized. By this act the Graduate School became the Graduate College of the University of Nebraska.

Purpose of the Graduate College. The Graduate College extends and enlarges the work of the undergraduate departments, in order to provide facilities for specialization and research. It enables students to employ themselves for two or more semesters on uncompleted subjects, or other work for which the discipline of college training has prepared them. It furnishes expert and standard preparation for those who expect to become investigators, consulting engineers, or teachers in academies and colleges. The Graduate College offers these privileges, which would be costly in an institution differently endowed, practically without expense to the student.

Degrees. The degrees of Doctor of Philosophy, Master of Arts, Master of Forestry, Agricultural Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer are conferred on registered students, by the Board of Regents, upon recommendation of the Graduate faculty.

ADMISSION TO THE GRADUATE COLLEGE

Classes of Graduate Students. The Graduate College recognizes three classes of applicants: those who, having taken a bachelor's degree, wish to broaden their education without reference to higher degrees; those who wish to be candidates for advanced degrees, but are deficient in undergraduate preparation; and those who are eligible to candidacy, and wish to enter at once upon their special work. Those who do not wish to be candidates for an advanced degree are at once admitted, on evidence of grad-

uation, to approved work in the Graduate College. Persons presenting first degrees in Law or Medicine or Theology may be admitted in this class. Those seeking advanced degrees, with insufficient preparation, are admitted to graduate standing, but must at once make up their deficiencies by taking courses in the undergraduate colleges. On completion of these assigned or arranged courses, such students become applicants of the third class, and are eligible to candidacy for the degree desired.

Registration. Graduates of the undergraduate colleges of this University, or of other colleges having equivalent courses and requiring four years of standard preparation, who have been accepted and approved by heads of departments in charge of the subjects proposed, are registered by the Dean of the college for the degree they designate. For the degree of Doctor of Philosophy, the candidate must be registered for a major subject and an approvably related minor, or a major subject and two approvably related minors. Candidates for the degree of Master of Arts may be registered for a major and a minor subject, or for a major and two minors, or may concentrate all work upon a single subject.

Fees

Matriculation, on entrance	\$5.00
Incidental, each semester	3.00
* Library, each semester	1.00
Diploma fee, for each advanced degree.....	10.00
<i>In absentia</i> additional diploma fee	10.00

Agricultural Chemistry—Courses 2, 4, \$5; 5, 6, \$10.

Bacteriology and Pathology—Courses 1, \$8; 2a, 3, 4, \$4.

Botany—Courses 5, 6, 23, 24, \$3; 13, 14, 31, 32, \$1; 15, 16, 21, 22, 25, \$2; 39, 40, 41, 42, 43, 44, 47, 48, 49, 50, for each credit hour a semester, \$1.

Chemistry—Courses 21, 34, \$5; 15, 16, 27, \$2; 14, \$8; 22, 39, 40, for each credit hour a semester, \$1.

Entomology—Courses 5, 6, 7, 8, \$2; 9, 10, 11, 13, \$1; 15, 16, 17, 18, for each credit hour a semester, \$1.

Geology—Courses 13, 33, \$1; 15, 16, \$2.

Histology and Embryology—Courses 1, \$4; 2 (according to credit), \$3 to \$6; 11, \$2; 11a, 14, \$3; 12, \$4.

Pharmacology—Courses 5, 6, \$3.

* Graduate students taking laboratory work are charged the usual laboratory fees; a student paying any laboratory fee is not required to pay the library fee.

Physiology—Courses 1, 2, \$5; 12, \$9; 13, \$6.

Zoology—Courses 1, 1b, 2, 5, 13, \$3; 6, \$5; 3, 4, 7, 12, 15, \$2; 21, 22, 36, \$1; 9, 10, 15, 17, 18, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

The usual laboratory fees are required of those taking work in any science or engineering department. But any student who is able to devote only a portion of his time to his University work may, upon the recommendation of the Graduate Council to the University Secretary, be permitted to register free of charge after he has paid the usual dues and fees for four semesters, if a candidate for the degree of Master of Arts, and for eight semesters, if a candidate for the degree of Doctor of Philosophy.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidacy for the degree of Doctor of Philosophy can in no case be completed in less than three years of graduate study. Two years of such work, in another institution, when carried with proper facilities and under competent instruction, may be credited by the Graduate Council; but the last year of candidacy must be spent in residence in the Graduate College. Each candidate must, at registration, satisfy the Graduate Council that he has a reading knowledge of French and German, or must arrange with the heads of these departments with reference to his deficiencies.

Preliminary Examinations. Not later than one school year before his final examination, each candidate for the degree of Doctor of Philosophy must submit to a preliminary examination. This examination may be waived, however, in the case of a candidate who has taken his Master's degree in this University.

Thesis. On completion of his studies, the candidate must present an acceptable thesis. The thesis, prepared upon a topic that has been approved by the professor in charge of the major subject, must show evidence of scholarly research. It must be typewritten, paged, and bound according to a prescribed form, which may be seen in the University library. It must be submitted to the professor in charge of the major subject at least two months before the intended graduation of the candidate. When it has been approved by the examining committee, it will be placed in the Chancellor's office, where, during a period of not less than two weeks, it will be available for inspection by members of the faculty. A public defense of the thesis may be required of the candidate. After the thesis

has been finally approved, the candidate must file an original and a duplicate typewritten copy of it with the librarian. The original copy of the thesis so filed may not be loaned, or pass from the custody of the librarian under any circumstances or pretext whatsoever. It is also required of the candidate that he have printed and deposited in the library of the University one hundred copies of his thesis, to be subject to the control of the librarian and the head of the department concerned. All theses and printed copies thereof must be provided with a cover and a title page lettered in a form prescribed by the librarian. The degree, however, may be conferred before the thesis is printed, provided a security bond be furnished and filed with the Secretary of the board of regents. The amount of this bond is to be named by the librarian, and any term of extension will be fixed jointly by the librarian and the Dean of the Graduate College.

Final Examination. After the thesis of the candidate has been accepted by the examining committee, he must pass a public examination in the subjects offered for his degree. This examination is held before an examining committee of not less than three members, including the professors in charge of the major and minor subjects, supplemented if necessary by appointment from the graduate faculty.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Candidacy for the degree of Master of Arts can in no case be completed in less than a year of resident graduate study.* On completion of this study, the candidate must pass a public examination, and present an acceptable thesis, based upon some topic connected with his major subject.

Examination. After finishing his studies, each candidate must pass a public examination in the subjects offered for the Master's degree. By concession, a student unable to complete his candidacy in a single residence at the University may be examined in his major and minor studies separately, on completion of either. The examination is conducted by a committee composed of the professors in charge of the major and minor subjects, and some member of the Graduate Council. If but a single subject is offered, an additional examiner is appointed from the Graduate Faculty.

Thesis. Each candidate for the degree of Master of Arts must present a thesis embodying, in connection with his major subject, the results of

* By concession, approved students may be accounted to have fulfilled the requirement of residence by completion of eighteen hours of work registered for in Summer Sessions of the University.

research, or the scholarly treatment of some topic. It must be typewritten, paged, and bound according to a form prescribed, which may be seen in the library of the University. It must be submitted for examination at least two weeks before the intended graduation of the candidate. After being approved and accepted, the thesis becomes the property of the University and is placed on file in the University library.

FELLOWSHIPS AND SCHOLARSHIPS

Fellowships and Scholarships, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate College only. Fees will be required for all undergraduate laboratory work. These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the announcement of the various colleges.

COURSES OF INSTRUCTION

The courses of instruction for the Graduate College, the College of Arts and Sciences, and the Teachers College are grouped together, on later pages of this catalog, under the heading, "Courses of Instruction."

**The College of Arts and
Sciences**

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University
Publisher.

ELLERY WILLIAM DAVIS, Ph. D., Dean of the College of Arts and
Sciences and Head Professor of Mathematics. Administration Hall
104.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany
and Head Dean of the Colleges.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Head Professor of the
English Language and Literature and Dean of the Graduate College.

CHARLES FORDYCE, Ph. D., Head Professor of Educational Theory
and Practice and Dean of the Teachers College.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology
and Junior Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History
and Literature.

HOWARD WALTER CALDWELL, A. M., Head Professor of American
History.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and Ento-
mologist of the Experiment Station.

LAURENCE FOSSLER, A. M., Head Professor of Germanic Languages
and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and
Literature.

ERWIN HINCKLEY BARBOUR, Ph. D., Head Professor of Geology and
Curator of the University Museum.

FRED MORROW FLING, Ph. D., Head Professor of European History.

GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor
of Education.

GEORGE ELLIOTT HOWARD, Ph. D., Head Professor of Political
Science and Sociology.

- PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.
- HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy.
- ALBERT ALISON REED, A. M., Inspector of Accredited Schools and Professor of Secondary Education.
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political Economy and Commerce and Director, School of Commerce.
- GEORGE EVERT CONDRA, Ph. D., Head Professor of Geography and Conservation.
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy.
- RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Head Professor of Physical Education.
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature and Director of the School of Fine Arts.
- HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.
- HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.
- CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics and Executive Dean.
- BENTON DALES, Ph. D., Professor of Chemistry.
- AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
- HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.
- JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.

GEORGE OLIEH VIRTUE, Ph. D., Professor of Political Economy and Public Finance.

EVERETT NEWTON BOWMAN, 1st Lieutenant Inf. U. S. A., Professor of Military Science and Tactics.

ALICE BAIRD ENSIGN, A. B., Adviser to Women.

JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.

FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature.

HERBERT BROWNELL, B. Sc., Professor of Theory and Practice of Teaching the Physical Sciences.

REV. DEAN R. LELAND, A. M., Chaplain of University Cadets.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacology.

LOUISE POUND, Ph. D., Professor of the English Language.

* CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.

PHILO MELVYN BUCK, JR., A. M., Professor of Rhetoric.

EWALD ORTWIN STIEHM, A. B., Professor and Director of Athletics.

GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteorology and Section Director of the United States Weather Bureau.

* LUCILE EAVES, Ph. D., Associate Professor of Practical Sociology.

GUERNSEY JONES, Ph. D., Professor of American-English History.

CLARK EDMUND PERSINGER, A. M., Professor of American History.

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

WILLIAM CHARLES BRENKE, Ph. D., Professor of Mathematics.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

RAYMOND JOHN POOL, A. M., Associate Professor of Botany and Curator of the Herbarium.

MYRON HARMON SWENK, A. M., Associate Professor of Entomology.

SARA SHEWELL HAYDEN, Associate Professor of Fine Arts.

* Leave of absence.

- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- AMANDA HENRIETTA HEPPNER, A. M., Assistant Professor of the Germanic Languages and Literatures.
- ELDA REMA WALKER, Ph. D., Associate Professor of Botany.
- NELS AUGUST BENGTON, A. M., Associate Professor of Geography and Conservation.
- ANDREW D. SCHRAG, Ph. D., Associate Professor of German.
- JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.
- SHERLOCK BRONSON GASS, Ph. B., Assistant Professor of Rhetoric.
- GEORGE ASBURY STEPHENS, Ph. D., Assistant Professor of Political Economy.
- GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.
- MILTON D. BAUMGARTNER, A. M., Assistant Professor of German.
- ROBERT DOUGLAS SCOTT, A. M., Assistant Professor of English Dramatic Literature.
- INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education and Director of Women's Gymnasium.
- FRANCIS J. PERUSSE, Ph. C., Assistant Professor of Pharmacy.
- LEVA BELLE WALKER, A. M., Assistant Professor of Plant Pathology.
- JOSEPH EMANUEL ALEXANDER ALEXIS, A. M., Assistant Professor of Germanic Languages.
- JOHN JACOB PUTNAM, A. M., Adjunct Professor of Bacteriology and Pathology.
- ECK FRANK SCHRAMM, A. M., Assistant Professor of Geology.
- HARRIETT ALICE HOWELL, A. M., Adjunct Professor of Elocution.
- LAURA BELLE PFEIFFER, Ph. D., Adjunct Professor of European History.
- CARRIE BELLE RAYMOND, Director of Music.
- MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.
- ALICE CUSHMAN HUNTER, Ph. D., Adjunct Professor of Roman History and Literature.
- SARKA HRBKOVA, A. B., Adjunct Professor of Slavonic Languages.
- IRVING SAMUEL CUTTER, B. Sc., M. D., Adjunct Professor of Chemistry.

- MARGUERITE CAMERON McPHEE, A. M., Adjunct Professor of Rhetoric.
- ELIZABETH IRENE REESE, A. M., Adjunct Professor of Romance Languages and Literatures.
- ANNA MABEL DAY, Adjunct Professor of Physical Education.
- HENRY T. JOHNSON, B. Sc., Adjunct Professor of Mathematics.
- MAY CHAMBERLAIN, A. M., Adjunct Professor of the Germanic Languages and Literatures.
- WINIFRED FLORENCE HYDE, Ph. D., Assistant Professor of Philosophy.
- ELSIE DAY, A. B., Ph. G., Adjunct Professor of Pharmacognosy.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science.
- CARRIE ADELINE BARBOUR, B. Sc., Instructor in Paleontology and Assistant Curator of the University Museum.
- JOHN MARTIN CHOWINS, Expert Mechanician, Department of Physics.
- BERTRAM JOHN SPENCER, Demonstrator and Teacher of Construction in Physics.
- HENRIETTA McELROY BROCK, Instructor in China Painting.
- CLARE BROWN CORNELL, A. M., Instructor of the Band and Assistant in Philosophy.
- DAISY JEANETTE NEEDHAM, A. M., Instructor in European History.
- CLARENCE JACKSON FRANKFORTER, A. M., Instructor in Chemistry.
- MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.
- LULU L. RUNGE, A. M., Instructor in Mathematics.
- ELIZABETH RUTH BENNETT, Ph. D., Instructor in Mathematics.
- JESSIE BEGHOT, A. B., Instructor in Physical Education.
- HAROLD EDGAR McCOMB, A. M., Instructor in Physics.
- EDITH LENORA WEBSTER, A. B., Instructor in Geology.
- CHARLES ORAN STEWART, A. M., Instructor in Romance Languages.
- SOLOMON LEFSCHETZ, M. E., Ph. D., Instructor in Mathematics.
- MARGARET LOUISE HANNAH, A. B., Instructor in Botany.
- OTTO WIESE, B. Sc., Instructor in Chemistry.

Standing Committees

Course of Study—Professors Fossler (chairman), Skinner, Wolfe, Lees, Frye, Le Rossignol, Stuff, Barker, Brenke.

Advanced Standing—The Chancellor, the Dean and the Inspector of Accredited Schools.

Assignment of Recitations and Laboratories—Professors Engberg (chairman), Almy, Alexis, Barker, Baumgartner, Borrowman, Buck, Gass, Johnson, Korsmeyer, Pool, Schrag, Scott, Stephens.

Advisers to Freshmen—Professors Lees (chairman), Fling, Frye, Skinner, Wolfe.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the oldest of the colleges of the University. It offers four years of undergraduate instruction leading to the degree of Bachelor of Arts or of Bachelor of Science. Its chief object is a liberal education, but by a system of "advisers" and "major subjects" it permits of vocational specialization, especially in junior and senior years. In addition, students desiring to combine a liberal arts course with the technical one of law, medicine, or engineering are offered six-year combined academic and professional or technical groups of study leading to the degrees of bachelor of arts or of bachelor of science at the end of four or five years and to the degree of bachelor of law, doctor of medicine, or bachelor of science in engineering at the end of the sixth year.

ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES

Entrance Credits. For admission to the freshman year of the College of Arts and Sciences, a student must present 30 high school entrance credits or "points"* from an accredited secondary school of which he must be a graduate. Conditional admission will be permitted on a minimum of 28 credits or "points" from an accredited secondary school of which the student must be a graduate. All other candidates for regular admission will be required to take entrance examinations.

Entrance credit, in addition to that presented when admission is granted, to be accepted must be submitted within one year from date of matriculation. In order to receive college credit for work accomplished in a secondary school application must be made at the time of first registration in the University.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

* An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of a competent instructor) each week for at least eighteen weeks. In laboratory courses without recitation, a credit point is the equivalent of fifteen single periods each week.

The following table of entrance requirements became effective September 1, 1912, for all undergraduate colleges of the University:

Required Subjects—	Points
English	4
History (European) (a).....	2
Language (Foreign) (b).....	6
Mathematics (c)	4
Science (Laboratory) (d).....	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school	12
	—
Total.....	30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c) Mathematics: For entrance to College of Agriculture four points are required. Advanced algebra and solid geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering six points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- (d) Science: It is recommended that Physics be offered in meeting the science requirement.

Freshman Program.* The following program for freshmen has been arranged:

	1st Semester Hours	2d Semester Hours
I. Rhetoric 1, 2.....	2	2
Military Science (Men) or Physical Training (Women)	1	1
II. Ancient Languages	5	5
Modern Languages	5	5
Mathematics	3	3

* Committee of Advisers appointed for freshmen in the College of Arts and Sciences: Professors Fling, Frye, Lees, Skinner, Wolfe.

	1st Semester Hours	2d Semester Hours
III. Botany	3	3
Chemistry	2 or 3	2 or 3
Physics	3	3
Zoology*	3	3
IV. European History 1, 2.....	3	3
American History 1, 2.....	3	3
English Literature 1, 2.....	3	3

Of the above the student is required to

First: Take I.

Second: Take any two of II.

Third: Take any one of III.

Fourth: If schedule permits take one of IV or another of III.

General Cultural Groups. In answer to the need of a broadly cultural or humanistic course of study four groups are offered. In each the need of a balance of ancient and modern languages, mathematics and science is recognized. Two of them lay emphasis on the Greek and Latin classics, but carry in addition one modern language. The other two lay emphasis upon the modern languages but retain one ancient language. The Registrar will furnish, upon application, the pamphlet describing these groups.

Vocational or Occupational Groups. Students who wish to combine liberal education and semi-professional specialization during their four-year arts college course are privileged to do so by taking advantage of "vocational groupings" offered within the arts college. These groupings are offered under the supervision of certain departments, and entrance to any group is obtained by choosing an arts "major" in the department offering the desired grouping. Such groupings are now offered in the following lines: General Business, Banking, Insurance, Transportation, Consular Service, Civil Service, under the advisership of the Department of Political Economy; Businesses involving a knowledge of real estate and land values, under the Department of Geography; County Newspaper Work, Advertising, and Spanish-American Salesmanship and Investment, under the Department of American History; Social Service, under the Department of Political Science and Sociology; Dramatic Arts, Drawing and Painting, under the School of

* Students fitting themselves for professional work in Entomology may substitute Entomology 1 and 2, taking Zoology 1 and 2 later.

Fine Arts; Village Criticism, under the Department of English Language and Literature; Government Scientific work in Geology, Geography, Chemistry, and Zoology, under those departments. Other groups are in preparation, and information concerning them, or any of the above, may be secured by writing or calling upon the University Registrar for the Bulletin upon Vocational Groupings in the College of Arts and Sciences. Freshmen who desire to take advantage of these groupings are advised to consult carefully the "Introduction" to the Vocational Bulletin before entering upon their Freshman registration.

Advanced Standing. Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regular organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence and in the senior year at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training

has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

Registration. Registration in the College of Arts and Sciences takes place during the first four days of each semester, from 9 a. m., Wednesday to 5 p. m., Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register (or pay regular, required fees) outside of these days.* A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made being regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of the college. No first-year student may register for more than 17 credit hours except with written consent of the dean, and then for a maximum of 18 hours. Second to fourth year students may register for 18 credit hours when their work has averaged at least 80 per cent the previous year. No first or second year student may register for more than one one-

* Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

hour course (in addition to drill or physical education) in any one semester; and no third or fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

Fees. All fees must be paid to the Secretary of the University at the time of registration. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a course or from the University. The following fees are required of students in the College of Arts and Sciences:

Matriculation (on first registration only).....	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	
Non-resident tuition, each semester.....	15.00
* Incidental, each semester.....	3.00
† Library, each semester	1.00
Diploma, on graduation	5.00
Special:	
Re-registration (including change in registration).....	3.00
Late registration (after registration days).....	3.00
Examination, each subject	1.00
Diploma, for degree taken <i>in absentia</i> , additional.....	10.00

Laboratory Fees. In addition to the foregoing general or miscellaneous fees, each student is required to pay the laboratory fee for each subject in which he is registered for laboratory work. These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar. For schedule of laboratory fees see page 37.

* In the six-year combined academic and professional or technical groups (law, medicine, and engineering) this fee is charged until such time as the candidate obtains his academic degree.

† No student paying a laboratory fee is required to pay this fee for the same semester.

REQUIREMENTS FOR GRADUATION

University Credits (125 hours). For the degree of Bachelor of Arts or of Bachelor of Science, 125 University credit hours* are required. No student is recommended for a degree who is not within eighteen hours of this requirement at the beginning of his last semester.

No student is permitted to be a candidate for more than one degree at a time. Not more than one degree can be conferred upon any student on any commencement day. A graduate holding the degree of Bachelor of Arts may receive the degree of Bachelor of Science by an additional year of work (30 hours), two-thirds of which must be given to a major in Exact Science, Physical Science, or Biological Science. A graduate holding the degree of Bachelor of Science may receive the degree of Bachelor of Arts by an additional year of work (30 hours), two-thirds of which must be given to a major in the Mother Tongue, Classics, Modern Language, History, Philosophy or Economics.

Required Subjects (8 hours). Each candidate for graduation from the College of Arts and Sciences is absolutely required to complete the following subjects:

	Hours
Rhetoric (courses 1 and 2).....	4
† Military Science (men) or Physical Education (women).....	4

* A course receives one hour of credit for each one-hour recitation or lecture which presupposes two hours of preparation or for the equivalent of a three-hour laboratory period during each of the eighteen weeks of a semester.

† Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved by the Chancellor, each undergraduate man or woman must fulfill this requirement during the freshman and sophomore years, or begin the work immediately upon matriculation. A reprieve does not abridge or otherwise modify a student's requirement in military science or physical education save to defer the period for discharging it. A student excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degree sought. Thorough drill or physical education elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of either subject at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

Optional Subjects (36 to 44 hours). Each candidate for the bachelor's degree is required to choose two groups from each of the following divisions (A, B, C),* in the amount indicated, which shall be completed before the end of his junior year:

	Hours
A (1) Mother Tongue	6
(2) Classics (Greek or Latin)†.....	10
(3) Modern Language (other than English).....	10
B (4) History	6
(5) Philosophy	6
(6) Political Economy or Political Science.....	6
C (7) Exact Science (Mathematics).....	6
(8) Physical Science (Chemistry or Physics).....	6
(9) Biology (Botany or Zoology).....	6

Each Sophomore shall take at least one subject (other than Rhetoric and Military Science or Physical Education) continued from his freshman year.

Specialization (24 to 40 hours). Not later than the beginning of his second or sophomore year, each student in the college of Arts and Sciences must select some one department in which he is to take a "major" of not less than 24 nor more than 40 hours,‡ or two minors of 12 to 16 hours each.

Grades. Not more than 20 per cent of the student's work below a grade of 70 per cent is credited on requirements for graduation.

In Absentia Credit.—All *in absentia* students must register the same as other students. For each credit hour granted, *in absentia*, students (except in the department of University Extension) are required to perform the equivalent of 72 hours of actual work (this being one-third more than is required of students in residence) under the direction of a professor in the department chosen. Credit for *in absentia* work is granted only by a committee of three appointed by the senior dean, the chairman of the committee being the professor whose subject is immediately concerned. This committee examines the work of the *in absentia* student and makes a written

* A subject from the groups taken in the student's first semester shall be continued in his second semester.

† A student may substitute a second year of classics (Greek or Latin) for any one of B or C.

‡ A student may register in the six-year combined Academic-Law course in his senior year and elect not more than 24 hours in the College of Law as his major. (See the announcement of the College of Law.)

report to the Registrar, together with a statement of the amount of credit to be granted.

Bachelor of Science Degree—Any student in the College of Arts and Sciences who majors in a scientific department and, of the 125 hours required for graduation, completes not less than sixty hours in mathematics and science may take the degree of Bachelor of Science instead of the degree of Bachelor of Arts. Such students, however, shall complete six of the nine groups (A, B, or C).

Advisers—At the time of his first registration each freshman student in the College of Arts and Sciences is assigned to a member of the Freshmen committee who becomes his adviser until his major subject is chosen. On the choice of a major department at the beginning of the second year, the head of the department thus chosen becomes the student's adviser for the remainder of his college course. No schedule of subjects or hours is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college, and the adviser to women as a special adviser to all women students.

COURSES OF INSTRUCTION

The courses of instruction for the Graduate College and the College of Arts and Sciences are grouped together, on later pages of this catalog, under the heading "Courses of Instruction." See, also, "Courses of Instruction" in the exhibits of other colleges.

The Teachers College

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Head Professor of Educational Theory and Practice.

GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Head Professor of Education.

HARRY KIRKE WOLFE, Ph. D., Head Professor of Philosophy. In charge of instruction in Educational Psychology.

ALBERT ALISON REED, A. M., Inspector of Accredited Schools, Professor of Secondary Education.

HARRY ELWYN BRADFORD, A. B., Professor of Secondary Agricultural Education and Principal of the Agricultural High School.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Head Professor of the English Language and Literature and Dean of the Graduate College.

ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics and Dean of the College of Arts and Sciences.

ROBERT HENRY WOLCOTT, A. M., M. D., Head Professor of Zoology and Junior Dean of the College of Medicine.

GROVE ETTINGER BARBER, A. M., Head Professor of Roman History and Literature.

HOWARD WALTER CALDWELL, A. M., Head Professor of American History.

LAURENCE FOSSLER, A. M., Head Professor of the Germanic Languages and Literatures.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

FRED MORROW FLING, Ph. D., Head Professor of European History.

PAUL HENRY GRUMMANN, A. M., Professor of Modern German Literature and Director of the School of Fine Arts.

PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Head Professor of Physical Education.

GEORGE EVERT CONDRA, Ph. D., Head Professor of Geography and Conservation.

ALICE MARIE LOOMIS, A. M., Head Professor of Home Economics.

CLARA CONKLIN, A. M., Professor of the Romance Languages and Literatures.

BENTON DALES, Ph. D., Professor of Chemistry.

† LUCILE EAVES, Ph. D., Associate Professor of Practical Sociology.

INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education.

ALICE BAIRD ENSIGN, A. B., Adviser to Women.

HARRIETT ALICE HOWELL, A. M., Adjunct Professor of Elocution.

FREDERICK MAURICE HUNTER, A. B., Lecturer in Elementary Education.

MATTIE ALLEN, A. M., Instructor in Primary Education.

* CHARLES WILLIAM TAYLOR, A. B., Principal of the Teachers College High School and Professor of School Administration.

* HERBERT BROWNELL, B. Sc., Professor of the Theory and Practice of Teaching the Physical Sciences.

* FREDERICK AMES STUFF, A. M., Litt. D., Professor of the English Language and Literature.

* CLARK EDMUND PERSINGER, A. M., Professor of American History.

* FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.

* DAISY JEANETTE NEEDHAM, A. M., Instructor in the Teaching of European History.

* VIOLA FLORENCE BARNES, A. M., Instructor in the Teaching of American History.

* Members of the University Faculty who direct practical courses in the High School.

† Leave of absence.

CORA B. HILL, A. M., Assistant Principal of the Teachers College High School and Instructor in Mathematical Pedagogy.

SARAH A. RYAN, A. M., Instructor in the Teaching of German.

LETTA MAY ENGLISH, A. B., Instructor in the Teaching of English.

ADA V. GRAHAM, A. M., Instructor in the Teaching of Latin.

DONEE GRIFFITH, A. B., Instructor in the Teaching of Geography and Botany.

A. J. DUNLAP, A. B., Supervisor of Assembly Room.

R. R. SPAFFORD, Instructor in the Teaching of Agriculture.

A. B. GELWICK, Instructor in Athletics.

NELDA A. SCHMIDT, A. B., Scholar in Educational Theory and Practice.

CHARLES MORSE, Assistant in Educational Theory and Practice.

Standing Committees

Course of Study—Professors Fossler (chairman), Lees, Skinner, Wolfe, Le Rossignol, Frye, Stuff, Brenke, Barker.

Schedule—Professors Luckey, Conklin, Wolcott, Brownell, the Registrar.

Advanced Standing—The Chancellor, the Dean, and the Inspector of Accredited Schools.

Teachers' Certificates—The Chancellor, Professors Bessey, Davis, Fordyce, Luckey, Reed, Stuff, Taylor, Lees, Wolfe, the Registrar (secretary).

Credits on University Teachers' Certificates—Dean Fordyce, the Registrar.

Bureau on Recommendation of Teachers—Dean Fordyce, Professors Barber, Brownell, Persinger, Reed, Wolfe, Taylor.

Nominations—The Chancellor, the Dean.

THE TEACHERS COLLEGE

On February 14, 1908, the Board of Regents erected the University Department of Education into a Teachers College. This action was confirmed by an act of the state legislature in 1909.

The aim of this college is, while dealing with the history, theory and practice of teaching generally, to improve the quality of secondary teaching in particular, and to provide thoroughly prepared teachers for the secondary schools. The Teachers College aims to provide for the following classes of students:

(1) Well advanced and ambitious teachers wishing preparation for school superintendencies or professorships in colleges or normal schools. They may or may not wish the University Teachers' Certificate, may or may not care to work for advanced degrees.

(2) College students intending to teach, who wish the Bachelor's degree with the University Teachers' Certificate. Such candidates register in this college in the Junior year, specializing in education, and proceed as laid down under "Requirements for Graduation." The requirements for the Certificate are found under the caption "University Teachers' Certificate" on a later page.

(3) Men and women of college grade who design to teach agriculture in high or normal schools. For these a solid one-year course is provided (see below), parts of which may, however, under advice, by such as so desire, be used with the more general studies toward a degree.

(4) Men and women not necessarily possessing so high attainments who call for preparation to teach agriculture in grade or rural schools. The Dean will arrange a year of work carefully adapted to the wants of these.

(5) Persons preparing to teach special branches, such as physical or manual training, home economics, and so on. See the special one-year curricula listed below.

(6) Mature teachers in any department wishing by a longer or shorter period at the University to review studies, familiarize themselves with new methods, or master new branches. Such teachers should consult the Dean. They will find a year or even a semester of properly chosen work of great value.

The Dean of the Teachers College is also ex-officio head of the Bureau on Recommendation of Teachers. This college is also charged with the

study of developing the work of instruction in agricultural pedagogy made possible by the so-called "Nelson Amendment" which became law at the end of the 59th congress. The Teachers College High School and the Agricultural High School serve as model secondary schools to the Teachers College.

ADMISSION TO THE TEACHERS COLLEGE

Candidates for admission to the Teachers College must have completed and have credit for the first two years of collegiate work. This credit must be preceded by the pre-collegiate preparation (30 points*) afforded by a four years' course in an accredited high school.

Advanced Standing. Applicants from other institutions of approved standing who offer collegiate courses or professional courses in excess of the requirements for admission will be assigned such advanced standing as may be determined by the Committee on Advanced Standing.

Registration. Students register in this college in the Junior year, at the same time retaining identity in another college of the University which grants the degree of Bachelor of Arts or of Science simultaneous with the granting of the Teachers College Diploma and the University Teachers' Certificate by the Teachers College. Thus throughout the Junior and Senior years the student is registered in two colleges.

Registration in the Teachers College takes place on the same days and under the same conditions as in the College of Arts and Sciences.

Advisers. The Dean of the college is the general adviser for students in this college. The board of advisers in this college consists of the Dean and members of the faculty. The general system accords with the plan obtaining in the College of Arts and Sciences.† All candidates for the Diploma and for the University Teachers' Certificate should consult the Dean before registering, that the grouping and correlation of their studies may be properly fixed. Special information concerning majors and minors in which the candidate wishes to specialize may be obtained from the heads of the departments concerned.

Fees in the Teachers College are the same as those in the College of Arts and Sciences, except that graduates taking the University Teachers' Certificate are charged an additional certificate fee of \$2.00.

* For the definition of a credit "point," see page 74.

† See page 82.

REQUIREMENTS FOR GRADUATION

University Credits (62 hours). Of the 125 University credit hours* required for the degree of Bachelor of Arts or of Bachelor of Science, 62 credit hours shall be in the Teachers College.

The candidate is enrolled at the same time in the Teachers College and in the college in which the major academic work for his degree is sought, being subject to the faculty of the latter college for his academic course and to the former for his professional. He must complete the required subjects in the college in which he takes his degree and, as optional subjects, the professional requirements of the Teachers College.

No student is recommended for a degree who, at the beginning of his last semester, is not within eighteen of the 125 hours required for graduation.

College Professional Requirements. Each candidate for graduation from the Teachers College is absolutely required to complete the following professional subjects in addition to those required in the college which grants the bachelor's degree.

	Hours
Psychology	6
Education (professional or technical work).....	15
Major and Minor subjects (specialization).....	40

The professional courses should be taken in the following sequence: Psychology and History of Education in the Junior year, Child Study in the Senior year or in the last half of the Junior year, Educational Theory and Practice in the Senior year.

No major subject may be less than 24 hours, and no minor subject less than 12 hours. The 40 hours may be divided between one major and one minor or three minors. Major and minor subjects should be closely allied.

Departmental Requirements for major and minor recommendations for the University Teachers' Certificate may be found at the beginning of departmental exhibits under "Courses of Instruction."

Residence. At least one year's resident work is required of all candidates for graduation from the Teachers College.

TEACHERS COLLEGE DIPLOMA

The completion of the two years' professional curriculum leads to the Teachers College Diploma, a document showing graduation from the Teach

* See foot-note (*), page 80.

ers College and naming the major subjects for which the candidate is prepared to teach.

PROFESSIONAL DEGREE

The Teachers College offers no undergraduate degree, but on the completion of an approved three years' professional curriculum, beginning with the junior academic year and extending one year into graduate work, the candidate receives the degree of Master of Arts in Education.

This college thus offers a professional course designed for students of superior scholarship and for experienced teachers who wish to make such a study of the more scientific aspects of educational problems as will especially fit them for the duties of superintendents, principals, supervisors, and departmental teachers of our best public schools.

THE UNIVERSITY TEACHERS' CERTIFICATE

The University Teachers' Certificate is granted only to students registered in the Teachers College and only to those who (1) maintain an average of at least eighty (80) per cent. in their undergraduate work, and (2) show special fitness for teaching. As indicated in the extract from the Nebraska certification laws quoted below, it entitles its holder to teach in any high school in Nebraska and is valid in many other states; after three years' successful experience in Nebraska it may be converted into a life certificate by the endorsement of the state superintendent.

The special requirements for this certificate are: (1) The candidate must hold the bachelor's or the master's degree from this University. (2) The completion of non-professional or specialized work amounting to at least 40 hours, divided between a major and a minor or among three minor subjects which the student expects to teach, the ultimate decision as to the student's proficiency resting with the Certificate Committee. The major subject shall be from 24 to 32 hours and the minor from 12 to 16 hours. (3) Professional Knowledge—The completion of 15 hours in Education, and 6 hours in Psychology. Among the 15 hours of Education required, the student may elect a two-hour course in special methods in his major subject; such course must, however, meet the approval of the head professor of Educational Theory and Practice.

Regents' Rules Regarding University Teachers' Certificates. (1) Each candidate for a teachers' certificate shall submit to the State Superintendent of Public Instruction, for his approval, a detailed report showing

the academic and professional preparation of the candidate, including both secondary and collegiate courses, properly authenticated by the Registrar of the University of Nebraska and the Dean of the college in which the student is matriculated. (2) Teachers' certificates issued by the University of Nebraska shall contain a full record showing the amount and the character of the student's work, secondary and collegiate, as shown by the records of the Registrar's office.

For intending teachers of such technical subjects as Agriculture, Domestic Science (Home Economics), Manual Training, Physical Education, Music, etc., special provision is made, under the new certification laws for supervisors in high schools and in the grades.

Certification Committee. All general questions relating to the student's work for the University Teachers' Certificate are under the supervision of the Committee on Teachers' Certificates as named in the standing committees of the Teachers College. Recommendations for the certificate are made to the Faculty of the Teachers College through this committee.

Bureau on Recommendation of Teachers. The University maintains a bureau under the direction of a committee, to assist students and graduates in securing positions as teachers and at the same time to aid superintendents and boards of education in providing schools with competent and suitable teaching talent. For information address the secretary of the Bureau on Recommendation of Teachers.

NEBRASKA CERTIFICATION LAWS

The laws of the state of Nebraska concerning the certification of teachers contain the following provisions:

University Professional State Certificate. "That all graduates of the University of Nebraska holding a degree of bachelor of arts or bachelor of science, and in addition thereto, certificates authorized by the board of regents showing that such graduates have completed the course of instruction prescribed by the regents and faculty of said university, for the special training and instruction of teachers, and such other graduates as hold the same degrees from any college or university duly incorporated under the laws of the state of Nebraska, who, in the judgment of the state superintendent of public instruction, have completed in their respective institutions an equivalent of the courses in the state university, for said degrees prescribed by the regents and faculty of said university, shall be accredited as qualified teachers within the meaning of the school law of this state;

and all such graduates shall have equal privileges, upon equal conditions, with graduates from any and all other educational institutions within this state under the school law thereof. Said certificates are hereby declared to be valid as certificates of the first grade to teach in the public schools of the state of Nebraska for a period of three years from their date" (Sec. 1a, subd. IX, S. L. 1905).

University Life Certificate. "After three years of actual teaching, the certificates of the graduates of the University of Nebraska, or of any other college or university mentioned or described in section 1a of this act, shall be countersigned by the state superintendent of public instruction upon satisfactory evidence that the services of the applicant have been successful; Provided, that said counter-signature may be cancelled and its legal effect annulled by the superintendent of public instruction upon satisfactory evidence of disqualification; Provided, further, that such certificates shall be subject to the provisions for lapsing set forth in Section 4, Subdivision 9, of Chapter 79 of the Compiled Statutes of Nebraska for the year 1899" (Sec. 1b, subd. IX, S. L. 1905).

City State Certificate. Those graduating from the University with either the University Teachers' Certificate or with a first grade County Certificate will receive the City State Certificate entitling them to teach in the public schools of Nebraska in accordance with Section 5, Subdivision 9a, School Laws 1911.

First Grade County Certificate without examination. On college graduation, with experience or professional training. "The county superintendent may, at his discretion, grant a first-grade certificate, without examination, to a graduate of a college, university, or state normal school, subject to such rules and regulations as may be prescribed by the state superintendent of public instruction" (Sec. 11, subd. IXa, S. L. 1911). The following requirements have been prescribed by the state superintendent governing the issuance of this certificate: (1) One year's successful experience in teaching; or (2) Four hours of school management; four hours in general methodology; and four hours in elective work in history of education, child study, school hygiene, educational psychology, or other pedagogical subjects.

County Certificate, with less than complete examination. "Graduates who have not had one year's experience or taken the aforesaid twelve hours in professional training will be required to take the regular teachers' examination in reading, arithmetic, grammar, geography, United States

history, drawing, orthography, penmanship, mental arithmetic, and theory and art of teaching. Graduates who cannot present college or university credit in algebra, botany, geometry, physics, agriculture, civics, English composition, bookkeeping and physiology, equal to that required at the University of Nebraska for full entrance to the freshman year in the institution, will be required to take in addition the regular teachers' examination in said subjects."

THE TEACHERS COLLEGE HIGH SCHOOL

The Training School. The Teachers College Training School is an accredited four-year high school approved by the North Central Association of Colleges and Secondary Schools. It is located in the University Temple and is a distinctive feature of the University Teachers College. Besides seven large, attractive class rooms and a commodious assembly hall, there are cloak and toilet rooms and ample library and laboratory equipments for a modern school. Here one hundred and twenty-five youths of high school rank are under the direction of the Head Professor of Educational Theory and Practice, a skillful and experienced principal, supervisors and assistant instructors.

Senior Observation and Practice in the Training School. The training School first serves as a model secondary school for instruction according to the most advanced methods, and secondly as a place for the study of practical problems in teaching and school administration. Seniors in the Teachers College are required to observe the conduct of the model school and to make a critical study of its educational aims, values and processes, the results of which are summarized and discussed in the class rooms. When the student has become familiar with the pedagogical work of the class observed he is required to select material and organize subject matter in lessons and assist in instruction; but in no case is a student teacher permitted to instruct in a subject that has not been made by him a major subject in University work.

Special Training Courses for Teachers. Several departments in the Teachers College also offer special methods in which they parallel their class-room theoretical work with practice work in the Training School. For the year 1913-1914 such work is offered in the following subjects: American History, Agricultural Botany, Chemistry, English Language and Literature, European History, German, Geography, Mathematics, Physics, Roman History and Literature. See "Courses of Instruction."

Lincoln City Schools. In addition to this model Training School maintained and controlled by the Teachers College, excellent facilities for observation of expert teaching are afforded by the city schools of Lincoln.

A tuition fee of \$13.50 a semester is charged each pupil registered in the Teachers College High School.

DEPARTMENTAL METHODS COURSES

Many of the departments of the Teachers College offer special courses giving instruction as to methods of teaching the subject matter peculiar to those departments. With the approval of the head professor of Educational Theory and Practice, two hours of such departmental method work in the student's major subject may be substituted for two hours of the required work in education. Courses of this kind offered for the current year may be found as follows: under "Courses of Instruction;" Agricultural Education; American History 12; Botany 33; Chemistry 29; English Language and Literature 29, 30 and 31; European History 45 and 46; Fine Arts 1; Geography 7; German 19; Greek History and Literature 17, 18; Home Economics 13, 14; Mathematics 9 and 9a; Music 3; Physical Education 17 and 18; Physics 15, 16; Physiology 1 and 2; Pharmacodynamics 5; Political Economy 4; Political Science 21, 35 and 36; Rhetoric 32; Roman History and Literature 43 and 44; Romance Language 11 and 12; Slavonic 15; Zoology 1 and 2, and 36 (Nature Study).

COURSES OF INSTRUCTION

General Courses—The courses of instruction in the Teachers College run parallel in the first two years with those of the College of Arts and Sciences, although the curriculum may include groups from the other colleges according to the election of the candidate. The aim is to give the student a liberal academic training before he begins his technical studies. In order that the candidate for the University Teachers' Certificate may have a proper foundation for the professional subjects of the Junior and Senior years, the academic courses are selective and must follow a definite sequence. In general the courses are broadly educational rather than narrowly so. The exceptions are the subjects purposely pursued with intensive aim.

TECHNICAL OR PROFESSIONAL COURSES

The technical or professional courses in the Teachers College are embraced in the following six departments: (1) Education, (2) Educational Psychology, (3) Educational Theory and Practice, (4) Secondary Education, (5) Educational Administration, (6) Agricultural Education. Certain prescribed groups from these courses are required for the University Teachers' Certificate, others for the county certificate (See "Nebraska Certification Laws").

For the University Teachers' Certificate, the following professional courses are required: 1, 2, 4 or 14, and 19 or 20 or 21 or 22; also, such additional work as will give a total of 15 hours in technical education. Among the latter requirements, the student may substitute a two-hour special methods course in the department of his major subject on the approval of the Dean. Intending teachers should at the time of registration confer with the Dean of the Teachers College, that the courses may be properly arranged for the University Teachers' Certificate or for the particular certificate sought.

I. Education

Head Professor Luckey, Miss Munson

The courses in Education are arranged in sequence, and are intended primarily for juniors, seniors and graduates. They should be pursued in

the order given unless the change is made on the advice of the instructor. Students should confer with the head of the department before registering.

To meet the need of pedagogical instruction in the normal training high schools and in the normal schools, the department offers a major in education as follows: (1) The major to include six hours in Education and three hours in Philosophy in addition to the present requirement of fifteen hours in Education and six hours in Philosophy for the University teachers' certificate; or (2) the major to include three hours in education and six hours in Philosophy in addition to the present requirement for the University teachers' certificate as given above.

For the above major in Education, courses 1, 2 and 4 in Education and 1 and 2 in Philosophy are required of all. The additional courses to make up the required number of hours may be elected by the student under the advice of the head of the department.

GRADUATE WORK

The chief aim of the department of education in its graduate work, is to furnish opportunity to school officers, teachers, superintendents and public spirited citizens for advanced study and investigation of important problems in education. A secondary aim is to advance the profession of teaching.

Candidates for advanced degrees in education must have completed the professional requirements leading to the University Teachers' Certificate or undergraduate credit in education equivalent to at least twelve semestral hours. Proficiency in one or more academic subjects taught in the high schools is also required.

Master of Arts Requirement—Second Minor: Four hours class-room work for one year. First Minor: Six hours class-room work for one year, with assigned readings equivalent to a two-hour course. Major: At least six hours class-room work for one year, assigned readings and a thesis representing the equivalent of a six-year course for one year.

The major for the master's degree may be accepted as a minor for the doctorate. The department is not at present sufficiently equipped to encourage candidates for the doctor's degree in Education; however, facilities for a limited number of strong candidates can be provided. A major for the doctor's degree in Education requires three years of graduate work of not less than twelve semestral hours per year and a thesis equivalent to half as many more hours. The number of hours required for major and minor, as given above, is only approximate, and cannot be relied upon unless the quality of the work is of high order.

The department has a scholarship and a fellowship open to graduate students of special merit. The scholarship is open only to students of full graduate rank while the fellowship is open only to Masters or students of one year graduate standing in Education.

COURSES

1. **History of Education**—Ancient and mediaeval, beginning with the earliest periods and extending to the time of Pestalozzi. A study of the physical, moral and intellectual development of mankind, including man's efforts to realize his ideals through systems of education. Especially valuable as a foundation to advanced work in education. Three hours attendance. Three hours credit. First semester.

Luckey

2. **History of Modern Education**—From the time of Pestalozzi to the present, including the beginning, growth and present condition of education in America. Three hours attendance. Three hours credit. Second semester.

Luckey

3. **Educational Classics**—A historical and critical study of the educational writings of Rousseau, Pestalozzi, Herbart, Froebel, and Spencer; a valuable preparation for course 4. Rousseau's *Emile*, Pestalozzi's *Leonard and Gertrude*, and Froebel's *Education of Man* are the subjects for 1913-1914. Three hours attendance. Three hours credit. First semester.

Luckey

4. **Child Study**—The physiology and psychology of childhood, with reference to the pedagogical principles involved; the literature and investigations of special value to the teacher; the more important methods used in child study; the effect of child study on methods of instruction, school management and other subjects of practical pedagogy. This course covers the development of the child for the first twelve years. It is a valuable foundation for the courses in adolescence. Three hours attendance. Three hours credit. Second semester. Summer Session, 1913.

Luckey

5. **Systems of Education**—Their origin and development, including a comparative study of the leading systems of education in Europe and America. Two hours attendance. Two hours credit. First semester.

Luckey

6. **School Hygiene**—A seminary course devoted to the study of school environments and curricula in reference to their effect upon the health, growth and development of school children, including the location and sanitation of school buildings—light, heat, ventilation, furniture; medicine

inspection, school diseases, baths, and lunches; sleep, food, clothing, exercise, study, fatigue, recreation, and health of teacher and pupils. Two hours attendance. Two hours credit. Second semester. Summer Session 1913. Luckey

7. Graduate Seminary—A study of current educational literature as found in the best periodicals, and a study of one or more educational problems of special interest to the teachers of Nebraska. Students will be directed in the preparation of these that will lead to higher degrees in education. Open to graduates who are working for higher degrees in education. One or two hours credit. First semester. Luckey

8. Graduate Seminary—7 continued. Second semester.

9. Adolescence—The health, growth, mental and moral development of youth as related to the various problems of secondary education, such as attendance, interest, habits of study, discipline, school spirit, ideals, character. An advanced course in child study especially adapted to secondary teachers, principals and superintendents. Prerequisite: Courses 1, 2, and 4. Two hours attendance. Two hours credit. First semester. Luckey

10. Adolescence—9 continued. Second semester.

II. Educational Psychology

In charge of Head Professor Wolfe

11. The High School—Evolution of secondary education, showing when the different studies of the curriculum, methods of teaching, and ideals came in, and their meaning and their adaptation to the life of the times. Discussion of current high school problems in the light of this historical study and the study of adolescence. Special reference to public and private secondary schools in Nebraska. For those who wish to devote themselves especially to high school work or superintendence. Two hours attendance. Two hours credit. First semester. Wolfe

12. The High School—11 continued, with more particular attention to the American high school. One or two hours attendance. One or two hours credit. Second semester. May be taken by qualified students without having taken 11. Wolfe

16. Educational Psychology—A practical study of the factors which influence the development of body and mind. Open to teachers and also to students in the last two years of their course who have had a semester of psychology. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1913. Wolfe

17. Philosophy of Education—The principles underlying all education and their influence in determining the material curricula in schools of instruction. Lectures, discussions, and private readings. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1913. Wolfe

18. Philosophy of Education—17 continued. Second semester.

III. Educational Theory and Practice

Head Professor Fordyce, Professor Taylor, Miss Allen, Miss Schmidt,
Mr. Morse

GENERAL INFORMATION

The courses in this department are intended to offer the essential complement in practice to the theoretical courses in education; the intending teacher is introduced to the actual problems of the class-room through a study of the educational aims, values, and processes found in the Teachers College Training School. In connection with the courses named below, one hour daily for one semester must be devoted to the observation and criticism of instruction and to actual teaching in the training school that the student may learn to judge good teaching in the light of the principles of education, and that his theories may settle into a system of efficient practice.

GRADUATE WORK

Candidates for advanced degrees in this department should have completed the equivalent of the requirements for the University Teachers' Certificate. Minors and majors will be arranged, in harmony with the regulations of the Graduate College, on consultation with the head of the department.

COURSES FOR UNDERGRADUATES

19. Educational Theory and Practice in the Elementary School—The development and formulation of the principles of method as gained through lectures, assigned readings, and the study and discussion of the teaching process, as observed in elementary schools; the preparation of lesson plans and practice in teaching. One hour daily during the semester must be arranged for observation and practice. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1913.

Fordyce

20. Educational Theory and Practice in the Elementary School—19 repeated. Second semester.

20a. The Kindergarten—A study of the educational aims, subject matter, and methods of instruction of the present day kindergarten. Three to five hours attendance with four to ten hours assistance in teaching. Credit in this course and also 20b will apply on certificate requirements, but not on graduation. First semester. Allen

20b. The Kindergarten—20a continued. A study of the principles underlying the work of the primary schools and a comparison with that of the kindergarten methods, including a careful examination of the ways and means of correlating the work of the two. Second semester. Allen

21. Educational Theory and Practice in the Secondary School—Lectures and assigned readings on the principles and technique of high-school instruction. The practical work consists of a critical study of the aims and methods exemplified in the Teachers College Training School and in the Lincoln city schools and of actual teaching to which one hour daily during the semester must be given. Three hours attendance. Three hours credit. First semester. Fordyce

22. Educational Theory and Practice in the Secondary School—21 repeated. Second semester.

Note—A limited number who have had Education 21 or 22 are permitted to teach a class in the model high school during an entire year. Such students rank as assistants in the Teachers College Training School. These assistants are required to meet in weekly conference for consideration of the concrete problems that arise in the class-room work. Application for enrollment in these courses should be made the preceding semester.

23. The Technique of Instruction—A practical application of the principles of method as formulated on courses 21 and 22. Three to five hours attendance. Two to three hours credit. First semester. Fordyce

24. Supervision and Criticism of Instruction—This course has to do with the function of the supervisor, the principal, and the superintendent in the oversight and training of teachers in service. Two hours credit. Second semester. Fordyce

25. The Laws of Learning—A consideration of man's original nature and the laws by which it is modified in the learning process, including a review of the experimental studies on mental development. Two hours attendance. Two hours credit. First semester. Fordyce

26. The Art of Study—A consideration of the relation between the

teaching process and the learning process together with practical lessons demonstrating the fundamental factors involved in study. Two hours attendance. Two hours credit. Second semester. Fordyce

IIIa. Theory and Practice in the Physical Sciences

Professor Brownell, Associate Professor Bengtson, Assistant Professor Filley, Miss Griffith

COURSES FOR THOSE WHO PLAN TO TEACH THE PHYSICAL SCIENCES IN HIGH SCHOOLS

27. Teachers' Special Methods in Physics (Physics 15)—Discussion in detail of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high schools generally. Such understanding and organization in the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Courses 1, 2, 3, 4, or 11, 12, 13, 14. Two hours attendance. Two hours credit. First and second semesters. Brownell

28. Teachers' General Course in Physics (Physics 15*b*)—Primarily for Summer School. The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative for laboratory and for lecture table. Organization of the subject-matter to be taught in connection with such experiments. Part of the subject presenting special teaching difficulties in high school work given careful exposition. The laboratory work a series of exercises fundamental in the teaching process. Two hours attendance. Four hours laboratory. Two hours credit. Brownell

29. Teachers' Special Methods in Chemistry (Chemistry 29)—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of class-room instruction to laboratory work. Choice of text and reference books. Prerequisite: Courses 1, 2, 3. Two hours attendance. Four hours preparation. Two hours credit. First and second semesters. Brownell

30. Teachers' General Course in Chemistry (Chemistry 29*b*)—Primarily for Summer School. Selection and working of experiments both for laboratory and lecture table to constitute a year's course in high school

chemistry. Subject-matter to be taught in connection with such experiments. Attention to parts presenting special difficulties. Chemical theory suitable for high school work. Laboratory work made the basis of instruction. Two hours attendance. Two hours preparation. Four hours laboratory. Two hours credit. Brownell

31. Teachers' Special Methods in Physical Geography (Geography 7)—Discussion of the subject-matter and methods of teaching Geography, especially of the Physical Geography of the high school. Relation of the various phases of the subject, and its distribution by grades in courses of study. Accumulation of illustrative materials, and selection of laboratory exercises. Collection and use of reference library books. Reports upon observations of grade teaching. Purpose and management of excursions and field studies. Prerequisite: Geography 1, 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Brownell, Griffith

32. Teachers' Laboratory Course in Physical Geography (Geography 11a)—Involves working a selected list of exercises suitable for use in high schools. The teachers' problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters. Griffith

33. Practice Course in Physical Sciences (Physics 16, Chemistry 30, Geography 11b, Agriculture)—A semester of teaching of classes in high school sciences under closest supervision. Involves (a) class management and class instruction, making of lesson plans, review of examination papers provision for desk experiments; (b) direction of laboratory work with sections of the science classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semesters. Brownell, Filley, Griffith

34. Elementary Physical Science—A course in general science for teachers in the public schools. Selection and organization of subject matter and its manner of presentation.

(a) Course for the elementary schools and city grade teachers. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First semester.

(b) Course for secondary schools as "General Science." Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Credit given for either (a) or (b) but not for both. Brownell

GRADUATE COURSES

51. **Practicum**—Book reviews, reports and discussions introductory to the selection and consideration of problems for the basis of thesis work in advanced degrees. Two hours attendance. Two hours credit. First semester. Fordyce

52. **Practicum**—51 continued. Second semester.

53. **Experimental Education**—The application of scientific methods in arriving at statistical results in present day educational practice. The course involves a study of the physical and mental capacities of the student and the factors that condition his progress through the school system. Two to three hours credit. First semester. Fordyce

54. **Experimental Education**—53 continued. Second semester.

IV. Secondary Education

Professor Reed

35. **The Secondary School**—A general course on the problems of the secondary school; its organization and equipment; relation of teacher to pupil, to principal, to board of education, to community, and to the profession; the program of studies; a balanced curriculum; questions of class organization; the library; the laboratory. Lectures, discussions, readings and reports. Open to juniors, seniors and graduates. One hour attendance. One hour credit. First and second semesters. Reed

36. **The Accredited School**—Systems of admission to higher institutions. College entrance requirements. Accredited relations: theory; basis; effect on programs of studies, courses of study, and curricula. Inspection: theory, history, and methods. The secondary schools: organization; standard of excellence; tests of progress; teacher; equipment library, and laboratories. Open to seniors and graduates. One hour attendance. One hour credit. Second semester. Reed

V. Educational Administration

Professor Taylor

37. **Educational Organization and Administration**—This course is planned especially for superintendents and principals. It deals with the problems of organization and administration of public schools as viewed

in the light of the prevailing systems in America. Among the topics considered are national and state control of education; the county, township, city and rural system; school building; playground; the school as a social center; inter-relation of school boards; superintendents, principals, and teachers; supervision of instruction—the teaching staff, improvement of teacher in service; administration of secondary and elementary schools; education for defective and subnormal children; discipline, government, courses of study, grading of promotion. Open to seniors and graduates. Number of hours' credit depends upon work done. First semester.

Taylor

38. Educational Organization and Administration—37 continued. Second semester.

VI. Agricultural Education

Professor Bradford

1. Agricultural Pedagogy—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers of this work. Junior or senior year. First semester. Two hours attendance. Two hours credit.

Bradford

EDUCATIONAL COURSES IN THE CURRICULA OF OTHER COLLEGES

12. American History—Practical preparation for teaching of American history in Nebraska schools. History in the school curriculum; equipment, qualifications of a teacher, methods, aids; practice work in outlining and map making; observation and practice work in the Teachers College Training School and the Lincoln high school. Required of seniors expecting a teacher's major in American history; may be substituted for Education general methods course. One hour attendance; one hour observation and practice. Two hours credit. Second semester.

Persinger

33. Botany—Open only to those who have had courses 1 and 2 and at least four hours more of advanced botany. Intended to help teachers in the grades, the high schools, and the colleges. Two lectures. Four hours laboratory. Two hours credit. First semester.

Bessey

29. English Language and Literature—A practical study of the syn-

thetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College Training School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester.

Sherman, Stuff

30. English Language and Literature—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester.

Sherman, Stuff

31. Teachers' Practice Course—Daily practice in teaching study of problems arising from actual conditions in the class room. Special study of the lesson and its development. One teachers' conference each week. Prerequisite: English Language and Literature courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester.

Stuff

45. European History—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester.

Fling

46. European History—45 continued. Second semester.

1. The Fine Arts—The interpretation of Art. This course is designed to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture, and decorative designs. It also deals with topics that have to do with the education of children; how pictures may be made useful in the schoolroom in stimulating a love for the beautiful; how they may be helpful in other subjects; what pictures are suitable for the schoolroom. Two hours attendance. Two hours credit. First semester.

Dann

7. Methods in Physical Geography—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative materials. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Griffith

17. **Greek History** (Prose Composition)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Greek History** (Prose Composition)—17 continued. Second semester.

19. **The Teachers' Course**—A survey of the principles underlying the teaching of German. Lectures, assigned readings, papers and reports on topics connected with language teaching in secondary schools. Practice teaching. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts suitable for high school use. The course also includes a thorough review of the chief features of German grammar and the elements of phonetics. Reference books: Fraser and Van Der Smitten's *German Grammar*, Prokosh's *German Grammar*, Bagster-Collins' *German in Secondary Schools*; *The Report of the Committee of Twelve*, Vietor's *Kleine Phonetik*, etc. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 and some advanced literature courses. In all cases students should consult with the instructor before registering for this course. Three hours. First semester. Fossler

13. **Home Economics**—Lectures with practice work in teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester. Loomis

14. **Home Economics**—13 continued. Second semester.

9. **Mathematics**—History of Mathematics. Two hours attendance. Two hours credit. Second semester. Candy

9a. **Mathematics**—Mathematical Pedagogy. The application of the principles of teaching mathematics in actual class work in the Training School. One hour credit. First and second semesters of the senior year. Hill

3. **Music** (Chorus Conducting)—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus will give a series of Vesper Services assisted by a string quartet. "*The Messiah*" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Music** (Chorus Conducting)—3 continued. Second semester.

17. **Physical Education**—(Consult instructors before registering.) Two hours attendance. Two hours credit. First semester.

Men, Clapp; Women, Gittings

18. **Physical Education**—17 continued. Second semester.

1. **Human Physiology**—Lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester. Guenther

2. **Human Physiology**—1 continued. Second semester.

5. **General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester. Lyman

Political Economy 4. **Geography of Commerce**—A general survey of the fundamental conditions and human agencies affecting industrial and commercial industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relation between countries. Two hours attendance. Two hours credit. First semester. Stephens

32. **Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to juniors, seniors, and graduates. Required of candidates for the University Teachers' Certificate in Rhetoric and English Composition. One hour lecture; three hours reading and observation. Two hours credit. Second semester. Frye, Fogg

43. **Roman History and Literature**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester. Barber

44. **Roman History and Literature**—43 continued. Second semester.

11. **Romance Languages** (French Writing and Speaking)—Advanced course. Two hours attendance. Two hours credit. First semester. Conklin

12. **Romance Languages** (French Writing and Speaking)—11 continued. Second semester.

15. **Slavonic** (Bohemian)—Methods in teaching Bohemian. A special course designed for those intending to teach Bohemian. Assigned readings, reports, lectures, model teaching. A thorough review of the grammar and a general summary of literature. Preparation of outlines for teaching. A survey of text-books used in teaching Bohemian. Suggestive helps and plans. Prerequisite: Satisfactory work in courses 1, 2, 3, 4, 9, 10, 11. Two hours attendance. Two hours credit.

Hrbkova

21. **Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester.

Eaves

Political Science 35. **Folk-Lore**—A study of those systems of belief and conduct which have survived from prehistoric and primitive culture into modern civilization. The subject is discussed under the following heads: 1. Folk-faith: animism, magic and myth. 2. Folk-literature: folk-tales and fairy-tales, popular epics, folk-songs and ballads, folk-plays, fables, proverbs, riddles, etc. 3. Folk-custom: popular festivals, pageants and ceremonies, children's games, symbols, and superstitions. These topics are treated with special reference to their relation to the beginnings of religion, law and morality. This course should prove of special importance to teachers and to others interested in the study of childhood. Lectures and reports. Two hours attendance. Two hours credit. First semester.

Webster

36. **Zoology** (Ornithology and Nature Study)—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two-hour course, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all, and not recognized in fulfillment of the group requirement for a degree.

Wolcott

SPECIAL ONE-YEAR AND TWO-YEAR TEACHERS' COURSES IN TECHNICAL SUBJECTS

Special courses, as follows, may be arranged on consultation with Dean: Agriculture, Manual Training, Physical Training, Drawing and Modeling, Oral Reading, Public Speaking and Dramatic Interpretation. These are intended for high or normal school teachers and others preparing to become such, who, for any reason, find it impossible to take the full course for a bachelor's degree, which lays a more ample foundation. Those who enter any of these courses are presupposed to be able at least to meet the requirements for "Adult Special" registration.

Courses of Instruction

in

The Graduate College, The College of Arts and
Sciences, and The Teachers College

Explanatory Note

Courses included between brackets [] are not given in 1913-1914.

Students must consult advisers before registering.

Students registered in the College of Agriculture, College of Engineering, College of Law, College of Medicine and the School of Pharmacy are privileged to select courses from the following departments which may apply as electives in regular courses of study.

Likewise students registered in the Graduate College, the College of Arts and Sciences, and the Teachers College may select courses from the departments exhibited in the colleges named above.

AMERICAN HISTORY

Head Professor Caldwell, Professor Persinger, Professor Jones, Professor Maxey, Miss Barns, Miss Eads

UNDERGRADUATE WORK

1. Order of Courses.—Courses 1, 2, 3, 4, 5 and 6 (American) and 29 and 30 (English) constitute the “general survey” of American and English-American history given by the department. In general, it is urged that students begin with either course 1 or 29, and pursue the subsequent courses in their consecutive order. But those who have had a full year high-school course in English History should omit courses 29 and 30, and begin with course 1; while those who have had a full year high-school course in American History may omit courses 1 and 2, and begin with either 3 or 29. Students who are pursuing “vocational groupings” will be admitted to their special courses in this department without preliminary requirements.

2. Requirements for Majors and Minors.—Every candidate for a “major” (either arts or teachers) in this department may be required, in addition to the completion of the indicated courses, to pass a satisfactory written and oral final examination upon the general field of American History, the examination to be taken during the last semester of his senior year. Each candidate for the teacher’s major in this department is required to teach one semester of American History in the Teachers College High School. For a 24-hour major—American History 1*, 2*, 3, 4, 5, 6, and any one of the following: Political Science 1 and American History 11 (required of candidates for the teacher’s major), Political Science 1 and 2, American History 29 and 30, European History 1 and 2 and Political Economy 1 and 2. For a 16-hour minor—American History 3, 4, 5, 6, 11, Political Science 1; other hour to be arranged for. For a 12-hour minor—American History 3, 4, 5, 11.

3. Vocational Groupings.—By co-operation with other departments, the department of American History is able to offer under its arts “adviser-ship” the following vocational groupings: County Newspaper Work; Advertising; Spanish-American Salesmanship or Investment. Groups of courses embracing these vocational specializations have been prepared and

* If excused from courses 1 and 2, as provided for in paragraph 1, substitute courses are to be arranged for on consultation with the departmental adviser.

published in the University Bulletin upon "Vocational Groupings within the College of Arts and Sciences." Students wishing to take advantage of these groupings should elect their arts "major" within this department, and on first consultation with the departmental adviser should indicate which one of the above vocational lines it is desired to follow.

GRADUATE WORK

4. Objects.—Graduate work in the department of American history affords opportunity to prepare for any one of the following four lines of work: (1) The teaching of American History in the best high schools of Nebraska and adjoining states, and in seminaries, academies, and colleges. (2) Fellowships or instructorships in the older and large universities. (3) Investigational work in corporate, state, or national service. (4) Historical research and writing.

5. Time.—From one to three (or more) years may be given to this preparation, under the direct advice and assistance of the instructors in the department, and culminating in the degrees of Master of Arts and Doctor of Philosophy. There are also exceptional opportunities for study in the collateral subjects of English and European history, political science and sociology, and political economy and commerce.

6. Facilities.—The University, State, and State Historical Society libraries afford a wide range of original material for work along many lines of historical investigation. Graduate students have free access to all these libraries, and in addition have for their use a seminary room in which are placed all books needed in their particular lines of research. Books not already on the shelves will be purchased or obtained from other libraries when necessary for thesis or other advanced work. Special seminary courses are offered; and investigation in the history of Nebraska and other states of the plains region will be undertaken and the results published from time to time.

7. General Requirements.—Undergraduate Courses 1, 2, 29 and 30 do not count toward a higher degree, but these or their equivalents and a good knowledge of general history must be presented by candidates for advanced degrees. Unless at least this amount of undergraduate preparation is actually presented, candidates for the Master's or Doctor's degree in this department should count on at least one full semester more of work than would otherwise be required for either degree.

8. Requirements for Master of Arts.—Work for the Master's degree may be taken in the department as follows: (1) All the work for the degree,

including the thesis, in the department. The minimum requirement is one full year's work, including a satisfactory thesis. (2) A major (60%) and the thesis in this department, and the remainder in either one or two other departments. (3) a double minor (40%) or a single minor (20%) in this department, and a major and the thesis in some other department. In any case, the particular courses to be taken are arranged by the candidate and his instructors in such manner as to conform to the plans and preparation of each applicant.

9. Requirements for Doctor of Philosophy.—The minimum for the degree of Doctor of Philosophy is three full years of graduate work, including the presentation of a satisfactory thesis. The work must be taken in at least two departments and may include three. For a major, 60 per cent. of the time must be given to this department; for a double minor, 40 per cent.; and for a single minor, 20 per cent. The thesis in all cases goes with the major. The particular courses to be pursued are arranged on consultation between the candidate and the heads of the departments in which his work is to be taken. Those taking a major in this department are expected to have a good general knowledge of European history and a fair acquaintance with the principles of political economy, public law, political science, and sociology. The thesis must show a reasonable degree of original research and independent treatment.

American History

1. **Colonial Period, 1492-1763**—Beginner's course, unless omitted under provisions of paragraph 1. Discovery, exploration, and colonization of the Americas by Europe; rise and development of the English colonies and colonial system; struggle of France and England for supremacy in America. Three hours attendance. Three hours credit. Given both semesters of each year. Persinger

2. **Revolution and Making of the Constitution, 1763-1789**—To follow course 1. British change of colonial policy after 1763; revolution and independence; the Revolutionary War; alliance, confederation, and constitution. Three hours attendance. Three hours credit. Given both semesters of each year and in summer session of 1914. Barns

3. **Early National Period, 1789-1829**—Open to those who have had courses 1 and 2, to those excused from 1 and 2 under provisions of paragraph 1, and to juniors and seniors. Formation of political parties; interpretation of the constitution; struggle for neutral rights and War of 1812;

reorganization of political parties; the Monroe Doctrine. Three hours attendance. Three hours credit. First semester and Summer Session of 1910.

Caldwell

4. Jacksonian Democracy; Slavery and the Civil War, 1829-1865—

Open to those who have taken course 3, and to seniors. The bank struggle; nullification; Texas, Oregon and the Compromise of 1850; the Kansas-Nebraska Bill; Dred Scott Decision; Election of 1860 and the Civil War. Three hours attendance. Three hours credit. Second semester and Summer Session of 1914.

Caldwell

5. Reconstruction and Industrial Development, 1865-1898—

Open to those who have had courses 1 and 2, to those excused from 1 and 2 under provisions of paragraph 1 and to juniors and seniors. Incorporation of results of war into Constitution and institutions of nation; rise of social and industrial problems; party development and political questions. Three hours attendance. Three hours credit. First semester and summer session, 1913.

Caldwell

6. Contemporary History—Open to juniors and seniors and to those who have had courses 31 or 5. Present day movements in European, American and world history with their historical backgrounds. Three hours attendance. Three hours credit. Second semester and Summer Session of 1914.

European—Jones; American—Caldwell; Latin-American—Persinger

10. Land Laws and Policy of the United States—Open to agricultural, engineering, forestry and advanced academic students. Development of the successive "Wests" of American history, and the land policy of present day; laws and policies in regard to agricultural, mineral, forest, and grazing lands. Three hours attendance. Three hours credit. Second semester.

Persinger

11. Teachers' and Graduates' Review Course—Required of seniors expecting teachers' certification from the department, and of all graduate students in the department. Subject-matter, bibliography, and methods of teaching American history. Two hours recitation, and third hour quiz section. Three hours credit. First semester.

Persinger

13. Nebraska History and Political Institutions—See Political Science course 13. Two hours attendance. Two hours credit. First semester.

Sheldon

16. Constitutional History of the United States—Development of principles later incorporated into the constitution; charters; attempts at union; growth of idea of written constitution, federalism, and the consti-

tutional convention; the confederation and its failure; the constitution; its formation, interpretation and growth through amendment, custom, and judicial decisions. Three hours attendance. Three hours credit. Second semester. Caldwell

17. **Latin America**—Open to advanced students, on consultation. Brief study of Latin-American history and relations; more detailed study of present-day Latin-American institutions, conditions, and opportunities. Study for 1913-1914 will center upon Peru and the west coast. Open to advanced students. Two hours attendance. Two hours credit. First semester. Persinger

18. **The Latin-American States**—A special course for those expecting to locate or work in some one of the Latin-American countries. Individual work, under direction, upon the particular country in which student expects to locate. One or two hours credit. Second semester. Persinger

19. **Conference on History in the Grade Schools**—Open to those engaged or expecting to be engaged in the teaching of history in the grades. General subject of study is the place of history and methods of teaching history in the first eight grades of the public schools. Special subject for 1913-1914 will probably be the last half of the eighth grade. On permission of instructor, may be attended without registration or credit. One hour attendance. One hour credit. First semester. Persinger

20. **Conference on History in the Grade Schools**—Continuation of 19. Second semester.

22. **American Diplomacy**—Organization of Department of State and of diplomatic service. Methods. Problems and controversies growing out of them. Change in our diplomatic policy. Two hours attendance. Two hours credit. Second semester. Maxey

23. **Graduate Seminary and Bibliography**—Thesis work required of all graduate students in the department. Two hours attendance. Two to four hours credit. First semester. Caldwell

24. **Graduate Seminary and Bibliography**—Continuation of 23. Second semester.

[33. **Nebraska Legislative Practice and Problems**—See Political Science course 33. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Sheldon]

[34. **Nebraska Legislative Practice and Problems**—Continuation of 33. See Political Science course 34. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Sheldon]

33a. Seminary on Nebraska History, Politics and Economics—Combined research seminar of the departments of American History, Political Science and Sociology and Political Economy. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in any one of the three departments. Given every year. First semester.

Caldwell, Le Rossignol, Virtue, Persinger, Sheldon

34a. Seminary on Nebraska History, Politics and Economics—33a continued. Second semester.

37. Graduate Conference—Meeting of professors, fellows, scholars and graduate majors for discussion of professional or technical subjects, book reviews, methods, etc. No credit. First semester.

38. Graduate Conference—37 continued. Second semester.

English-American History

29. English History (until 1603) leading up to American Colonization—English feudalism; church and state; formation of the English nation; development of Parliament; rise of cities and the agrarian revolution; the new monarchy; the renaissance, geographical discoveries, and abolition of papal jurisdiction; the Reformation. Character of English society at the moment of American settlement. Three hours attendance. Three hours credit. First semester and Summer Session of 1914. Jones

30. Modern English History (after 1603) as related to American History—Puritan revolution; revolution of 1688 and rise of the cabinet; struggle for colonial supremacy; the House of Hanover and the American revolution; influence of the French Revolution; social reforms; democracy and empire; successive emigrations to America. Three hours attendance. Three hours credit. Second semester and Summer Session of 1915.

Jones

31. Contemporary History—Recent political events in Great Britain, Germany, France, Italy and Russia, and the relations of these countries to the United States. History and present status of European alliances; Morocco; the Balkan question. Open to juniors and seniors and adult special students. Two hours attendance. Two hours credit. First semester and Summer Session of 1914.

Jones

[32. **Contemporary History**—See course 6.]

35. Seminary—The Anglo-Portuguese Treaty of 1654, based upon a nearly complete transcript of the manuscript sources in English and Portu-

guese archives supplemented by all the available printed material. Open to graduates and advanced students upon permission of the instructor. Two hours attendance. Two hours credit. First semester. Jones

36. **Seminary**—The Anglo-Portuguese Treaty of 1861, based upon material as in course 35. Open to graduates and advanced students upon permission of the instructor. Two hours attendance. Two hours credit. Second semester. Jones

ANATOMY*

(See "Anatomy," College of Medicine)

Professor Poynter, ———

The aim of the work in the following courses in Anatomy is to give the students such a knowledge of the human body as will enable them to intelligently apply the principles of Physiology, Physical Culture, and Hygiene to the individual problems they encounter. Co-operation in the great movement for the conservation of health demands a more exact knowledge of the structure of the body than can be gained from the brief study in the grades.

15. **Anatomy for Students of Physical Training**—A course designed to acquaint students of physical training with a general knowledge of the human body and a more detailed knowledge of the muscular system, the peripheral vessels and nerves of the viscera. It must be preceded by Zoology 1 and 2. Two hours attendance. Six hours laboratory, with demonstrations. Four hours credit. First semester.

16. **Anatomy for Students of Physical Training**—15 continued. See second semester.

ARCHITECTURE

(See School of Fine Arts and College of Engineering)

ASTRONOMY

Professor Swezey, Professor Loveland, Professor Brenke

GENERAL INFORMATION

The Astronomical Observatory with its telescope and other instruments furnishes to elementary students an opportunity to study at first hand the more interesting heavenly bodies. They are given some practice in such

* No credit can be given for these courses in the College of Medicine.

exercises as finding accurate time by the stars, determining the latitude of the Observatory, and recognizing with the spectroscope the various elements present in the sun and stars. For advanced work the telescope is equipped with photographic, photometric and spectroscopic appliances; the meridian circle, zenith telescope, transit instrument, and sidereal clock and chronometers furnish facilities for the more important problems in the astronomy of precision.

The location on the campus of the United States Weather Bureau with its self-registering instruments and its daily compiling and printing of a weather map add much interest to the study of meteorology. A complete series of the daily weather maps for many years furnish original data for all sorts of climatological studies.

For the University Teachers' Certificate courses 4, 7, 8, 9, and 10 are required for a minor and, in addition, courses 15, 16, 21 and 22 or else courses 17, 18, 21 and 22, for a major.

GRADUATE WORK

Master of Arts.—Any of the courses offered to graduates and comprising six hours credit may constitute a minor for a student who takes two minors for his degree. Any two such courses may be taken as a single minor. Two such courses and a thesis constitute a major.

Doctor of Philosophy.—The department does not undertake major work for this degree, but the courses offered for the degree of Master of Arts may be chosen as minors by candidates for the doctorate taking their majors in other departments.

PRIMARILY FOR UNDERGRADUATES

Meteorology

1. **General Meteorology**—A general survey of the earth's atmosphere, including composition and extent, temperature, moisture, dew, frost, clouds, precipitation, winds and storms. Students are taught the construction and use of weather maps and climatic charts, and the use and care of meteorological instruments. Two hours attendance. Two hours credit. First and second semesters. Loveland

2. **Weather Forecasting**—A study of the laws of storms and the principles of forecasting. Prerequisite: Course 1. One hour attendance. One hour credit. First semester. Loveland

3. **Practical Meteorology**—A study of the application of meteorology to the various vocations, such as farming, forestry, and engineering; to

the workers in the trades and professions; to the householder and ordinary citizens; showing the value and use of a knowledge of weather and climate. Prerequisite: Course 1. One hour attendance. One hour credit. Second semester.

Loveland

4. **Elementary Astronomy**—Lectures on the fundamental facts and methods of the science. Prerequisite to courses 7-11, which may then be taken in any order. Two hours attendance. Two hours credit. First and second semesters.

Swezey

4a. **Elementary Astronomy**—Course 4 continued. Second semester.

5. **Observational Astronomy**—A study of selected objects with the telescope. Designed to be supplementary to course 4, but may be taken without it. One hour attendance. One hour credit. First semester.

Swezey

6. **Observational Astronomy**—Similar to course 5, though may be taken first if desired. Second semester.

7. **The Solar System**—Two hours attendance. Two hours credit. First semester.

Swezey

8. **The Sidereal Universe**—Three hours attendance. Three hours credit. First semester.

Swezey

9. **The Sun and the Stars**—Two hours attendance. Two hours credit. Second semester.

Swezey

10. **The Moon and the Earth**—Closely related to physical geography. Two hours attendance. Two hours credit. Second semester.

Swezey

11. **Ancient Astronomy**—A study of the facts and problems mastered by the early astronomers down to Newton. One hour attendance. One hour credit. First semester.

Swezey

12. **Modern Astronomy**—Achievements and pending problems of recent astronomy. One hour attendance. One hour credit. Second semester

Swezey

COURSES FOR UNDERGRADUATES AND GRADUATES

Practical Astronomy

Involves the use of instruments of precision. Courses 4 to 10 are not prerequisite, but would be a useful introduction, especially course 4.

15. **Spherical and Practical Astronomy**—Theory and use of telescope, transit instrument, meridian circle, and zenith telescope. Prerequisite: Plain trigonometry and some facility in the use of logarithms. Three hours attendance. Three hours credit. First and second semesters.

Swezey

16. **Spherical and Practical Astronomy**—15 continued. Second semester.

17. **Field Astronomy for Engineers**—Methods of finding latitude, longitude, time and the meridian by means of transit. Three hours attendance. Three hours credit. First and second semesters. Brenke

18. **Geodetic Astronomy**—Methods of finding precise azimuths and latitudes, as employed by the U. S. Geodetic Survey. Three hours attendance. Three hours credit. Second semester. Brenke

Mathematical Astronomy

(Involving calculations, but not observations)

21. **Celestial Mechanics**—Requires the calculus. Three hours attendance. Three hours credit. First semester. Brenke

22. **Celestial Mechanics**—21 continued. Second semester.

Climatology

23. **Climatology**—Climates of different parts of the world. Causes of these differences. Prerequisite: Course 2. One hour attendance. One hour credit. One or two additional hours credit may be secured by further work in the study of the climates of selected localities. First semester. Loveland

24. **Climatology**—23 continued. Second semester.

BACTERIOLOGY AND PATHOLOGY

Professor Waite, Adjunct Professor Putnam

GRADUATE WORK

As requirements for registration in this department for advanced degrees the applicant must have completed work equivalent to that of a general scientific course in this University. The ability to read German and French is necessary. Before registration for an advanced degree the candidate must consult the head of the department.

Master of Arts.—Second minor: Courses 1, or 2a and 3, or 2a and 4. First Minor: Course 1 and its equivalent along some special line of research. Major: Advanced work following the courses outlined above with a thesis.

Doctor of Philosophy.—Minors: The minimum requirement will be the equivalent of six hours of class work approved by the head of the department. Major: The candidate must have a thorough knowledge of general

bacteriology equivalent to that required for the degree of Master of Arts. In addition to this he must have pursued and completed some original problem and must embody the results of his work in a thesis. The minimum time requirement must be at least that required by the University for the degree.

1. **General Bacteriology**—Form, structure, manner of multiplication, reproduction, requirements of growth, and chemical products of bacteria. Relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms. Disinfection, sterilization, theories of immunity. Non-pathogenic and pathogenic forms. Four hours attendance. Eight hours laboratory. Four hours credit. First semester.
Waite, Putnam

2a. **Elementary Bacteriology**—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.
Waite, Putnam

3. **Dairy Bacteriology**—Sources of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming and butyric acid-producing bacteria. Abnormal fermentations giving rise to slimy, bitter, red, blue, yellow and green milk. Relation of milk to spread of tuberculosis, typhoid fever, and other diseases. Sterilization and pasteurization. Bacteria in butter making. Micro-organisms concerned in the production of cheese. Two hours attendance. Four hours laboratory. Two hours credit. First semester.
Waite, Putnam

Courses 3 and 4 must be preceded by either course 1 or 2a.

4. **Agricultural Bacteriology**—The nitrogen problem. Bacteria in ammoniacal fermentation, nitrification and denitrification. Bacteria as a means of reclaiming nitrogen lost from the soil. The employment of pure cultures in growing leguminous plants. Azoto bacteria. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.
Waite, Putnam

BIOMETRY

(See Mathematics)

BOHEMIAN

(See Department of Slavonic)

BOTANY

Head Professor Bessey, Professor Wilcox, Associate Professor Pool, Associate Professor Walker, Assistant Professor Walker, Instructor Hannah, Miss Lee, Miss Anderson, Miss Dworak, Miss Lapp, Miss Kramer, Miss Holmes, Mr. Rands, Mr. Ludden

GENERAL INFORMATION

Students entering upon undergraduate botanical work must take courses 1 and 2 or present an equivalent, and are recommended to take 3 and 4, especially in case of preparation for teaching the subject. After this nearly all of the courses are open to election.

The following combinations are recommended for undergraduate majors and minors:

- 40 hour major. Courses 1-2, 3-4, 5-6, 13-14, 15-16, 19-20, 21-22.
- 30 hour major. Courses 1-2, 3-4, 5-6, 13-14, 19-20.
- 24 hour major. Courses 1-2, 3-4, 13-14, 19-20.
- 20 hour major or minor. Courses 1-2, 3-4, 19-20.
- 18 hour major or minor. Courses 1-2, 3-4, 13-14.
- 16 hour major or minor. Courses 1-2, 13-14, 19-20.
- 14 hour minor. Courses 1-2, 3-4, or 1-2, 33-34 and 19 or 20.
- 12 hour minor. Courses 1-2, 19-20.
- 10 hour minor. Courses 1-2, 13-14.

Five laboratories,—general, advanced, physiological, systematic, and mycological,—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glass-ware, and other supplies and apparatus.

See, also, Agricultural Botany.

The Botanical Seminar holds open meetings every two weeks for the reading of papers and discussion of botanical questions. To these meetings all students in the department are welcome. Membership in the Seminar is restricted to advanced students of Botany who after invitation succeed in passing the severe entrance examinations set for them.

GRADUATE WORK

Before formal registration for a degree for graduate work in this department the student must have satisfactorily completed General Botany

(Courses 1, 2, 3, and 4) and Plant Physiology (Courses 19 and 20) or their equivalent (20 hours), and one year of Zoology. He must also be able to read Latin, French, and German.

The research laboratory supplied with microscopes, microtomes, culture apparatus, etc., is for the exclusive use of graduate students. The University Herbarium, of considerably more than 220,000 specimens (now temporarily deposited in the University Museum) and the botanical library are open every work day of the week for study and consultation. For certain lines of graduate work the department has photographic cameras and a dark-room. The department (in connection with Agricultural Botany) is prepared especially to offer graduate instruction in plant pathology.

Master of Arts.—For majors candidates may select work in cytology, histology, systematic botany, mycology, physiology, ecology, pathology, economic botany, preferably in courses 39 to 50. For minors any courses excepting 1, 2, 3, 4, A, 19, 20.

Doctor of Philosophy.—Majors: Courses 39 to 50. Minors: Any courses which the student is prepared to enter (excepting 1, 2, 3, 4, A, 19, 20).

COURSES FOR UNDERGRADUATES

A. General Botany

Recommended to all students intending to make a thorough study of the science.

1. **General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems). General survey of the plant kingdom, including blue-green and green algae and also the bacteria and some fungi. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, L. B. Walker

2. **General Botany**—The general survey continued, including brown and red algae, the fungi (including lichens), to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, L. B. Walker

Botany A (Botany 1 and 2)—The Department of Botany offers this intensive course which includes the study of protoplasm, cells, tissues, tissue systems (cytology and histology), and their activities (physiology), followed by the structure of selected representatives of the various groups of plants in the vegetable kingdom (general morphology), together with an introduction to their physiology, distribution, and classification. It meets the needs of those who expect to teach Botany in the high schools, and it

takes up the topics in the sequence, and the manner recommended to teachers in such schools. It is thus a "teachers' course." It is also a University course, being identical with Botany 1 and 2 of the first and second semesters, and will fully satisfy the University's requirement for six hours of credit in General Botany.

Those who register for this work must bear in mind that it will require practically all of their available time. The lectures are given every week day (six days), and followed immediately by not less than four hours of daily work in the laboratory (24 hours each week). The credit for the completed work is six hours.

Bessey, Hannah

3. General Botany—A more detailed study of the structure and classification of Myxophyceae to Carpomyceteae, with particular reference to their identification; cell-division, formation of the primary tissues and introduction to cytological technique. Three hours lecture. Eight hours laboratory. Four hours credit. First semester.

E. R. Walker

4. General Botany—A similar study of Bryophyta to Anthophyta; their origin and relationships; spore formation and the development of the embryo. Three hours lecture. Eight hours laboratory. Four hours credit. Second semester.

E. R. Walker

B. Special Botany

I. Histological Botany

5. Cytology—Plant cell and karyokinesis in lower and higher plants with cytological technique. Must be preceded by 1, 2, 3, 4 or their equivalent. One hour lecture. Six hours laboratory. Two hours credit. First semester.

E. R. Walker

6. Histology—Tissues and tissue aggregates in higher plants, with the technique of staining and mounting. With special reference to woody plants. Must be preceded by 1 and 2. Two hours lecture. Eight hours laboratory. Three hours credit. Second semester.

E. R. Walker

II. Systematic Botany

13. Flowering Plants—Principles of the classification of Monocotyledons and their particular application to the Grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester.

Bessey

14. Flowering Plants—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in Course 13. Second semester.

Bessey

B. Systematic Botany in the Summer Session—Field work and laboratory work under the direction of the professor, with occasional lectures or conferences. Two to eight hours credit. Summer Session.

Bessey

15. **Mycology**—A survey of the development and present condition of our knowledge of fungi. The general morphology, physiology, life history, and classification of the Phycomycetales, Ascomycetales, Basidiomycetales and Fungi Imperfecti. The laboratory work familiarizes the student with the current histological technique for the preparation and detailed study of different fungous structures. Three hours lecture. Six hours laboratory and field work. Three hours credit. First semester.

L. B. Walker

16. **Mycology**—15 continued. Second semester. The role of fungi and bacteria in the production of plant diseases receives special treatment in this course. The development and condition of our present knowledge of plant diseases. Pathological centers and the literature of plant diseases. The laboratory work familiarizes the student with modern pathological technique, including the preparation of the various culture media. Three hours lecture. Six hours laboratory and field work. Three hours credit. Second semester.

L. B. Walker

23. **Advanced Mycology**—Study of a selected group of fungi, including morphology, development and classification. Two lectures or conferences. Four to thirteen hours laboratory. Two to five hours credit. Pool

24. **Advanced Mycology**—23 continued. Second semester.

25. **Forest Mycology**—An adaptation of courses 15 and 16 for students in horticulture and forestry. The general morphology and physiology of fungi, followed by a detailed study of the morphology, physiology, development, and classification of the fungi which attack the leaves, stems and roots of woody plants, especially of forest trees. Field trips for the recognition and the collection of material. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester. Pool

31. **Botanical Literature**—Library work with frequent conferences. Prerequisites: Courses 1, 2, 3, 4, 19, 20 or equivalents. Two to four hours credit. First semester.

Bessey

32. **Botanical Literature**—31 continued. Second semester.

III. Physiological Botany

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of

the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance of bodily form; turgor; secretion; waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Pool

20. **Plant Physiology**—Photosynthesis; the manufacture and assimilation of foods; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement; irritability; stimulus and response; correlation; reproduction of plants. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Pool

21. **Plant Ecology**—A study of the relation of plants to their environment. Ecological factors; Ecological classification. The plant formation. The origin, development, structure and succession of plant formations. Alteration and zonation. A study in the field and greenhouse of factors of the habitat by means of cultures and instruments. Designed to give a general view of the matter and methods of modern ecology. Prerequisites: Courses 19 and 20. Two hours attendance. Four to six hours laboratory and field work. Two hours credit. First semester. Pool

22. **Plant Ecology**—A further study of the theories and of the methods of ecology in the field and laboratory. Ecological anatomy. Detailed field studies will be made in the prairie, woodland and salt-marsh formations about Lincoln. The plant formations and successions in various parts of the United States will also be treated. Prerequisite: Courses 19, 20, and 21. Two hours attendance. Four to six hours laboratory and field work. Two hours credit. Second semester. Pool

IV. Technical Botany

33. **Field Botany**—An introductory course intended to acquaint students and teachers with some of the materials and methods of out-of-door work in botany. Suggestions for those intending to teach in the grades, the high schools and the colleges. Prerequisites: Courses 1 and 2. Two lectures. Four hours field and laboratory work. Two hours credit. First semester. Pool

34. **Field Botany**—33 continued. Suggestions as to the composition and arrangement of the high school course; what to do in the laboratory; what to do in the field; how to collect material and to prepare it for future use; the preparation of the herbarium and other illustrative material; books, guides and other useful literature; sources of materials and supplies. Pre-

requisites: Courses 1, 2 and 33. Two lectures. Four hours field and laboratory work. Two hours credit. Second semester. Pool

COURSES FOR GRADUATES ONLY

(The student may register for any one of these courses year after year until the completion of his problem.)

39. **Economic Botany**—An advanced study of the uses of plants; the origin, distribution, and modifications of cultivated plants; and the systematic botany of the plants used by man. Open only to students who have had a sufficient training in systematic botany. Five or ten hours credit. First semester. Bessey

40. **Economic Botany**—39 continued. Second semester.

41. **Systematical Problems**—Assigned problems in the field and herbarium. Five or ten hours credit. First semester. Bessey, Pool

42. **Systematic Problems**—41 continued. Second semester.

43. **Morphological Problems**—Assigned problems in the morphology of a plant, or group of plants. Five or ten hours credit. First semester. Bessey, E. R. Walker

44. **Morphological Problems**—43 continued. Second semester.

45. **Ecological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Pool

46. **Ecological Problems**—45 continued. Second semester.

47. **Physiological Problems**—Assigned problems in field and laboratory. Five to ten hours credit. First semester. Pool

48. **Physiological Problems**—47 continued. Second semester.

49. **Pathological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Wilcox, L. B. Walker

50. **Pathological Problems**—49 continued. Second semester.

CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler,
Mr. Frankforter, Mr. Wilson

GENERAL INFORMATION

Courses A, B, 1, 2, and 3 give a general knowledge of the aims, principles, and methods of the science. These courses, with 29, and four hours electives in the department, fit students to teach chemistry in high schools

and thus form a major for the University Teachers' Certificate. They serve also as a foundation for a thorough and exact scientific training. In them the student is given a general survey of the field of chemistry, both inorganic and organic, including the nature of chemical processes and the use of chemical apparatus. Courses for Teachers' Certificate major may, under special circumstances and on consultation with the head of the department, be reduced to 16 or 17 hours. Courses for the 12-hour Teachers' Certificate minor are to be chosen after similar consultation.

Courses for the Arts and Sciences college major shall include A, B, 1, 2, 3, 7, and 34 or 8 or 21 and 22 or 14. For the minor requirement in the Arts and Sciences college the 12-hour minimum must include Courses 1, 2, 3 and 3 hours of advanced elective. A student entering without 2 points credit in chemistry will have to add Chemistry D to the above 12 hours.

The following sequence of courses is recommended for students in the general groups who specialize in chemistry:

First Year—Consult the head of department or associate in regard to registering for A and B, 1 and 2, or whether all four courses should be completed during the first year.

Second year—For students who have completed 1 and 2, Courses 3, 5, 7.

Third year—Courses 8, 14, 34, 26 or 44.

Fourth year—Courses 15, 16, 21, 22, 25, 27 or 39, 40.

Courses A, B, 1, 2, 3, 5, 14, 29, 34 and 41 are primarily for undergraduates.

Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40, 43, and 44, are for the following classes of students:

1. Undergraduates who specialize in chemistry.
2. Graduates, particularly those who select chemistry as a minor for advanced degrees.

GRADUATE WORK

Graduate work in Chemistry is based upon the assumption that the student has had Courses A, B, 1, 2, 3, 25, and 26 or their equivalents. Courses 5, 7, and 8 are regarded as fundamentals and must be taken before a student may pursue chemistry as a major subject.

Students may pursue any special line of work in which they may have become interested as a result of advanced work in this or other universities. The opportunities for young men in technical work, especially assaying, railway chemical work, various manufacturing concerns, experiment sta-

tion and government work are continually on the increase. Many of the latter are open to young women. The demand for good science teachers is always greater than the supply.

Several graduate assistantships (paying \$400 a year and fees) and at least one fellowship and one scholarship are given to promising applicants each year. They may be renewed for a second year. The holder is required to give about half of his time to instruction in the general courses. Application should be made to the head of the department not later than April first.

Courses for advanced degrees usually lie in experimental chemistry and chemical theory, much latitude being allowed in respect to the exact topics. The attainment of a degree depends more upon the candidate's ability to think clearly and closely than upon the accomplishment of a fixed amount of work.

Master of Arts—Minors: Four to six hours selected from Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40 and 44 with consent of the head of the department. Major: Advanced work along one of the lines indicated by courses above named and a thesis.

Doctor of Philosophy—Minors: Not less than six hours class work selected by the candidate upon consultation with the head of the department. Major: Graduate study and the preparation of a thesis which shall mark an advance in knowledge along the line of the subject chosen. The exact time requirement cannot be given, but shall be at least the minimum required by the University for the degree. The candidate for the doctorate from this department must choose two minors from allied subjects.

General Chemistry

* **A. General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the

* A and B are not to be confused with courses of the same designation given prior to 1908. These courses are designed to present the subject to students in the College of Arts and Sciences. No previous training in chemistry is required. The course previously termed A, is now replaced by course D, while the older B is now designated combined 1 and 2.

In general, students desiring to study chemistry, who enter the University with two points credit, should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise by the department, to register as follows: Those in the College of Arts and Sciences, in the Teachers College and in the Home Economics group in the College of Agriculture will register for Chemistry A. Students in the College of Agriculture other than those just mentioned, the College of Engineering, and the College of Medicine will register for Chemistry D.

fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester. Given in Summer Session, 1913. Dales, Wilson, ———

* **B. General Chemistry**—Continuation of course A. Especial attention is given to the metallic elements, the more common organic compounds and the applications of chemistry to every day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1913. Dales, Wilson, ———

* **D. The Non-metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for course 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester. May be taken as course Da with four hours laboratory work instead of seven for three hours credit instead of four, by Home Economics and College of Agriculture students only. Dales, Wilson, ———

26. History of Chemistry—Lectures; the elaboration of an assigned topic by each student. Prerequisite: Courses 1, 2, and 3. Two hours attendance. Two hours credit. Second semester. *Given in 1913-1914 and alternate years thereafter.* Dales

28. Advanced Inorganic Chemistry—Elements discussed in order in which they occur in periodic table. Special consideration to the properties and interrelations of the groups. The rarer elements given detailed treatment. Lectures illustrated by experiments. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Three hours credit. Second semester. Dales

29. Teachers' Special Methods in Chemistry—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of class-room instruction to laboratory work. Choice of text and reference books. Prerequisite: Courses 1, 2, 3. Two hours attendance. Three hours preparation. Two hours credit. First and second semesters. Given in Summer Session, 1913. Brownell

* See foot-note on page 131.

30. Teachers' Laboratory Course in Chemistry—A semester of teaching of classes in high school chemistry under closest critical supervision. Involve (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of the high school chemistry classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Chemistry 29. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semester. Given in Summer Session, 1913.

Brownell

[44. Theoretical Chemistry]—Principles and theories of general chemistry. Two hours attendance. Two hours credit. Second semester. *Given in 1912-1913 and alternate years thereafter.*

Fossler]

Analytical Chemistry

1. Qualitative Analysis—Elementary course required of technical and scientific students. Prerequisite: A and B, D, Da, or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Borrowman, Wilson, ———

2. Qualitative Analysis—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Borrowman, Wilson, ———

1 and 2 (combined), **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Given in Summer Session, 1913.

Dales, Wilson, ———

5. Qualitative Analysis—Study of characteristic reactions for the rarer elements and their application to analytical purposes; elementary spectroscopic analysis; dry way reactions. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters. Given in Summer Session, 1913.

Dales

7. Quantitative Analysis—Gravimetric determinations of the more important bases and acids, including complete analysis of one limestone and one alloy. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1913.

Frankforter

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis and sanitary analysis of water. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1913. Frankforter

20. **Dental Chemistry**—Chemistry and metallurgy as applied to dentistry. Two hours lecture. Four hours laboratory. Two hours credit. Second semester. Borrowman

21. **Assaying**—Lectures, readings and laboratory work on the qualitative examinations of the common minerals and ores and the quantitative determinations of gold, silver and lead in ores and metallurgical products. Students are urged to take along with the assaying courses, or preferably before, courses 15 and 16 in Geology. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman

22. **Assaying**—Lectures, readings and laboratory work on the quantitative analysis of ores and metallurgical products by wet methods, including the tests made in cyanide practice. May be taken without having had course 21 providing the student first takes up the qualitative work of course 21, for which credit will be given. Prerequisite: Courses 1 and 2. Two hours attendance. Four to thirteen hours laboratory. Two to five hours credit. Second semester. Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester. Dales

40. **Advanced Analytical Chemistry**—39 continued. Second semester.

Organic and Physiological Chemistry

3. **General Organic Chemistry**—The important classes of organic compounds of the aliphatic and benzene series. Derivatives. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester. May be taken as course 3a with four hours laboratory work instead of eight for four hours credit instead of five, by Home Economics and College of Agriculture students only. Fossler

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Fossler

16. **Advanced Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—Organic compounds and chemical processes of physiological importance. Prerequisite: Courses 1, 2 and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester.

Fossler

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; evaluation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2, and 3. Five hours lecture with demonstrations. Eight hours laboratory. Five hours credit. Second semester.

Fossler

43. **Nitrogen Chemistry**—An elective course of one hour lecture a week on the evolution of compounds of nitrogen, their properties, and products of dissociation. Prerequisite: General inorganic and organic chemistry. One hour credit. First semester.

Fossler

Physical Chemistry

25. **Physical Chemistry**—Elementary course, the general principles of physical chemistry with applications to chemistry and to other sciences; designed for students in the Arts and Sciences and Medical Colleges. Prerequisite: Courses 1, 2, and 3. Two hours lecture. Two hours credit. First semester.

Dales

27. **Physical Chemistry**—Laboratory course. Methods of most general application to chemistry. May be taken with or after course 25. Six hours laboratory. Two hours credit. First semester.

Dales

Technical Chemistry

23. **Engineering Chemistry**—Lectures and readings on the sources, manufacture, composition (with special reference to efficiency) and behavior, under various conditions, of the materials of engineering—iron and steel and other metallic materials, wood, stone, clay, mortars, and cements, fuels, water, lubricants, paints and varnishes, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters.

Borrowman

23a. **Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. May be taken with or after course 23. Students may select work according to interest

and needs and arrange with instructor for readings and laboratory hours.
 Prerequisite: Courses 1 and 2. Hours credit dependent on amount and
 quality of work done. Borrowman

EDUCATION COURSES

The courses of instruction in Education are given in the exhibit of the Teachers College. These courses are open, however, to students of the College of Arts and Sciences.

ELOCUTION

(See School of Fine Arts)

ENGLISH LANGUAGE AND LITERATURE

Head Professor Sherman, Professor Stuff, Professor Wallace, Professor
 Pound, Assistant Professor Scott

GENERAL INFORMATION

Courses 1 and 2, dealing with elements and first principles of criticism, are introductory to all the other work of the department.

The University Teachers' Certificate—Because of the need of preparation in both Rhetoric and English Literature for certificated teachers, no majors or minors are offered or accepted in either subject singly. A combined major or a combined minor is provided for such as are preparing to teach English in secondary grades. The combined major embraces courses 1, 2, 11, 12 in Literature, and courses 3, 4, 7, 8 in Rhetoric. The combined minor includes course 1 in Literature, and course 7 in Rhetoric. But with each major or minor, courses 17, 18, in English Literature, must be taken, as fundamental in either subject.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **English Literature**—Introductory. Literary elements and principles, with illustrative study of modern poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Given in Summer Session, 1913. Wallace, Stuff

1. **English Literature**—Introductory. Literary elements and principles, short story, dramatic monologue, and selected poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Wallace, Stuff

3. **Shakespeare**—First studies in the literary art of this author. *Mac-*

beth, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester.

Wallace

4. **Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester.

5. **The History of English Literature**—A survey of the development of English Literature; the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer Spenser, Milton, and others. Three hours attendance. Three hours credit. First semester.

Pound

6. **The History of English Literature**—5 continued. Second semester.

7. **Comparative Literature in English**—Intensive study of Job and other Hebrew literature. Comparative studies on kindred themes, from Greek, Celtic, English, Spanish, and German literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Stuff

8. **Comparative Literature in English**—Literary art in Matthew, Mark, Luke, and John. Comparative studies from Swedish, French, Italian, English, and American literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. Second semester.

Stuff

9. **Nineteenth Century English Poets**—English poets from 1793 to 1900. The romantic movement of the early nineteenth century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Landor. The Victorian period. Tennyson, the Brownings, Clough, Arnold, Rossetti, Morris, Swinburne. Preliminary completion of courses 5 and 6, though desirable, is not essential. Two hours credit. First semester.

Pound

10. **Nineteenth Century English Poets**—9 continued. Second semester.

11. **English Literature**—Literary art and diction. Studies in the development of modern prose. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester.

Sherman

12. **English Literature**—11 continued. Daily written exercises of appreciation and criticism, in selected specimens of best literature. Two hours attendance. Two hours credit. Second semester.

Sherman

14. **American Literature**—Its relation to the national life and thought. Lectures, collateral readings, and reports. Two hours credit. Second semester.

Pound

COURSES FOR UNDERGRADUATES AND GRADUATES

15. Current Comparative Literature—Literary art of today. Comparative view of means, modes, and influences. Study of chief authors in Scandinavian, German, Russian, French, Italian, as well as English and American writers. Prerequisite: Courses 1 and 2. Class limited to twenty. Admission by conference with instructor. Acquaintance with French and German or Italian is desirable, but not essential. Two hours attendance. Three hours credit. First semester. Wallace

15a. The Short Story—Art of the modern short story in America, England, Russia, Germany, France, and Italy, with a survey of its evolution. Entrance by permission. Two hours attendance. Two hours credit. First semester. Wallace

15b. The Short Story—15a continued. Second semester.

16. Current Comparative Literature—15 continued. Two hours attendance. Three hours credit. Second semester.

17. Essentials of Old English: Outline of Old English Grammar—Reading at earliest moment of prose and poetic specimens. *Beowulf*, through 500 lines. Introductory to the history of the English language and the history of Old English literature. Four hours attendance. Four hours credit. First semester. Pound

18. Old and Middle English and History of the English Language—17 continued. *Beowulf* continued. The development of the language traced from Old to Modern English, the history of inflections, sound changes, spelling, etc. Outline of Middle English grammar. Reading of selected Middle English texts before Chaucer. Four hours credit. Second semester. Pound

19. The Novel—Its relation to the expression of life. Study of modes and art principles in the interpretation of life. Two hours attendance. Two hours credit. First semester. Stuff

20. The Novel—19 continued. Two hours attendance. Two hours credit. Second semester.

21. Elizabethan-Jacobean Drama—Shakespeare's contemporaries to the readjustment of the theaters, 1610. Reciprocal influences. Principles of the drama. Study of the play-houses. Prerequisite: Courses 1 and 2. Two hours attendance. Weekly conferences. Three hours credit. First semester. Wallace

22. Elizabethan-Jacobean Drama—21 continued. Shakespeare's con-

temporaries and successors from 1610 to 1642. Introduction to scientific methods of investigation. Two hours attendance. Weekly conferences. Three hours credit. Second semester.

Wallace

23. **Browning**—Written studies of *Luria*, *Return of the Druses*, *Pippa Passes*. Two hours attendance. Two hours credit. First semester.

Wallace

24. **Browning**—23 continued. *The Ring and the Book*, *Sordello*. Second semester.

25. **Shakespeare**—Advanced studies in dramatic art, as represented in *Cymbeline*, *The Winter's Tale*, *Coriolanus*. Two hours attendance. Two hours credit. First semester.

Sherman

26. **Shakespeare**—25 continued. *Romeo and Juliet*, *Twelfth Night*, *King Lear*. Two hours attendance. Two hours credit. Second semester.

27. **English Ballads**—Introduction to the study of popular poetry. Reading of selected ballads of England and Scotland, with some references to ballads in other literatures. The ballad revival in the eighteenth century. Modern imitative ballads. One hour attendance. One hour credit. First semester.

Pound

28. **English Lyric Poetry**—Nature of the lyric. Survey of leading lyric kinds and types: ballads, sonnets, odes, elegies, etc. History of the English lyric. Two hours attendance. Two hours credit. First semester.

Pound

29. **Teachers' Course in English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College High School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1913.

Sherman, Stuff

30. **Teachers' Course**—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester.

Sherman, Stuff

31. **Teachers' Practice Course**—Daily practice in teaching. Study of

problems arising from actual conditions in the class room. One teachers' conference each week. Prerequisite: Courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester. Stuff

33. Principles of Dramatization—Construction in the drama of Shakespeare, Moliere, Schiller, Goethe, and Victor Hugo. Two hours attendance. Two hours credit. First semester. Sherman

34. Principles of Dramatization—33 continued. Construction in the drama of Corneille, Caldron, Goddoni, Maeterlinck, Ibsen, and in the classic drama. Second semester. Sherman

COURSES PRIMARILY FOR GRADUATES

35. Advanced Old English—Open to students who have a working knowledge of the language. The special mode of study varies according to the needs or equipment of the class. Serves often as an introduction to comparative Teutonic philology. Outline of general phonetics included if necessary. Precedent or accompanying study of Gothic and Old High German recommended. Two hours attendance. Two hours credit. First semester. Pound

36. Advanced Old English—35 continued. Second semester.

37. History of Old English Literature—Reading of texts in translation. Study of textual and manuscript criticism, disputed readings, dates, problems of authorship and interpolation, historical and mythological elements, history of opinion, etc. One hour attendance. One hour credit. First semester. Pound

38. History of Old English Literature—37 continued. Second semester.

39. The Mediaeval Drama—Development of the liturgical drama. Origins and growth of Mysteries, Miracles, and Moralities in England and continental Europe. Studies of text and form. Two hours attendance. Two hours credit. First semester. Wallace

40. Pre-Shakespearean Drama—Development of the New English drama to Marlowe. Two hours attendance. Two hours credit. Second semester. Wallace

41. Seminary in English Literary Prose—Study of development and excellencies. Two hours attendance. Two hours credit. First semester. Sherman

42. Chaucer—Literary and linguistic studies. Informal lectures on contemporary fourteenth century life and literature. Two hours attendance. Two hours credit. Second semester. Pound

43. **Seminary in Criticism**—Two hours attendance. Two hours credit.
First semester. Sherman

44. **Seminary in Present Literary Forms and Tendencies**—Two hours attendance. Two hours credit. Second semester. Sherman

45. **Celtic Sentiment and Thought in its Relation to English Literature**—A survey of early Irish and Welsh literature with special study of the Arthurian sources. Admission on consent of the instructor. Two hours attendance. Two hours credit. First semester. Stuff

46. **Celtic Sentiment and Thought in its Relation to English Literature**—45 continued. Celtic influence upon the English romantic movement. Two hours attendance. Two hours credit. Second semester. Stuff

47. **Seminar**—Studies in the Elizabethan drama. Investigations of special topics. Methods of scientific research. Consultations and formal reports. Admission upon approval of instructor. Two hours attendance. Two hours credit. First semester. Wallace

48. **Seminar**—47 continued. Direction of individual studies in the drama, novel, short story, or other literary form. Modern scholastic methods of research. Two hours credit. Second semester.

49. **Seminar**—In the Classical and Modern Drama. Two hours attendance. Two hours credit. First semester. Sherman

50. **Seminar**—49 continued. Second semester.

ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in entomology except 3, 4, 7, 8, 9 and 10.

GRADUATE WORK

A candidate for the degree of Master of Arts in entomology must have had Zoology 1 and 2, or their equivalents, in addition to Entomology 1 and 2. He should be able to read Latin and either French or German, or both.

The department has at the University Farm a laboratory fully equipped for the use of students engaged in research work along systematic lines, and a modern insectary well provided with apparatus useful in facilitating research in economic entomology, such as breeding cages, cameras, dark room and aquaria, for those investigating the life-histories of insects

The research laboratory is supplied with compound and dissecting microscopes, microscopical accessories, camera lucida, lanterns and slides and illustrative models and charts. A collection of insects numbering approximately 150,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica and Mexico collected by Professor Bruner on entomological excursions to these countries. The library contains practically complete files of all the American and the principal foreign entomological periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

Master of Arts—As his major for the degree of Master of Arts the student may choose either courses 15 and 16 or 17 and 18. He may elect his first and second minors from the other courses offered as graduate studies in allied departments. The graduate work of this department is of so technical a nature, being chiefly designed to prepare students as government, state or experiment station investigators in entomology or as museum scientists, that each student should consult with the head of the department before registering.

PRIMARILY FOR UNDERGRADUATES

1. **General Entomology**—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life-histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester. Bruner, Dawson

2. **General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester. Bruner, Dawson

3. Economic Entomology—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influences on insect control; cultural preventives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester.

Bruner

4. Economic Entomology—Detailed studies of our most conspicuous insect pests, concerning their life-histories and habits, and preventives and remedies for them, and in the spring observations of their work in the field. Does not presuppose course 3, although it is recommended that students elect that course immediately preceding this one. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester.

Bruner

FOR GRADUATES AND UNDERGRADUATES

5. Systematic Entomology—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclature codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups, designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester.

Swenk

6. Systematic Entomology—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography, entomological literature and methods of publication; bibliography, index and catalogue compilation. Two hours attendance. Seven or more hours laboratory or field work. Three or more hours credit. Second semester.

Swenk

7. Agricultural Entomology—A review of the principal insects injurious to corn, the small grains, alfalfa and clover, grasses, the potato, sugar beets and garden vegetables. Assigned readings and laboratory work in life-histories and actual field work in investigating insect pests. Two

hours attendance. Seven or more hours preparation. Three or more hours credit. First semester. Swenk

8. **Agricultural Entomology**—7 continued. In addition, a consideration of the principal insect enemies of the apple, stone fruits, grape and bush fruits, and of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation. Two hours attendance. Seven or more hours preparation. Three or more hours credit. Second semester. Swenk

9. **Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. Three hours directed laboratory and reading. One hour credit. First and second semesters. Bruner

10. **Domestic Entomology**—A series of lectures on insect life, emphasizing especially the insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitoes, etc. Two hours attendance. Four hours preparation and reading. Two hours credit. First semester. Swenk

11. **Forest Entomology**—Lectures and laboratory studies on the insects of the forest. Two hours attendance. Seven hours laboratory. Three hours credit. Second semester. Bruner

12. **Historical Entomology**—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two hours assigned readings. One hour credit. Second semester. Swenk

13. **Medical Entomology**—A study of insects in their relation to the transmission of certain human and animal diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. Second semester. Bruner

14. **Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one

evening of each month for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meetings may be applied as laboratory work.

PRIMARILY FOR GRADUATES

(These courses may be registered for repeatedly until the completion of the problem.)

15. Research in Systematic Entomology—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Bruner

16. Research in Systematic Entomology—15 continued. Second semester.

17. Research in Economic Entomology—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester.

Bruner

18. Research in Economic Entomology—17 continued. Second semester.

EUROPEAN HISTORY

Head Professor Fling, Adjunct Professor Pfeiffer, Miss Needham

GENERAL INFORMATION

The undergraduate courses in European History are intended for the following classes of students:

1. Those who are preparing to teach history in the high school or in the college. Courses 1 and 2 should be taken the first year; courses 5 and 6 with 3 and 4, or 17 and 18, or 19 and 20 the second year; 47 and 48, or 17 and 18, or 19 and 20, the third year. This is the minimum requirement in European History for the University Teachers' Certificate. Students are strongly urged to elect in addition in the senior year a seminary and the Teachers' Course (45 and 46, or 47 and 48). The languages needed in the advanced work, especially French, should be taken up in the first and second years. Students are advised to consult with the head of the department (during registration week) concerning their work.

2. Those who are specializing in language and literature. Courses 3 and 4 are intended for students of English literature, 7 and 8 for students of German literature, and may be taken by those who have not had courses 1 and 2.

3. Those who are preparing for law or debate will find especially valuable the training in the use of evidence given in courses 1 and 2. The same courses are helpful to students of economics and sociology.

GRADUATE WORK

The department offers excellent opportunities for graduate study on the French revolution and the Napoleonic era. The collection of sources and secondary works upon the early revolution is the best in the west and one of the best in the country. On the Napoleonic era the department has recently acquired the valuable Oncken collection of manuscripts, containing the correspondence of the most distinguished English diplomats during the years 1812-1815 inclusive. Each year special courses and seminars are offered on these two periods. In the seminars, the student is introduced in a critical way to the best sources and investigations are begun that may lay the foundation for research work abroad. To take advantage of these courses, the student should have had general courses on the French revolution and the Napoleonic era, some undergraduate training in the use of sources, and should have acquired a reading knowledge of French. With such a preparation, it is possible to take the master's degree in one year. When the student is not properly prepared, the training may be secured in the undergraduate course offered by the department. This preparatory work may be done in one year, if the student has already acquired in undergraduate courses a fair working knowledge of European history.

Masters of Arts—Second Minor: At least eight hours of graduate work; two years of undergraduate work are required before graduate work can be entered upon. First Minor: Same as 1, 2, 3, and 4 for major. Major: (1) an acquaintance with the history of Europe from the beginning of Greek history to the last quarter of the nineteenth century; (2) a knowledge of the literature of European history, consisting of the best known sources in English, French and German, and the most important works of secondary writers; (3) an acquaintance with bibliographical aids and historical atlases; (4) a theoretical knowledge of the methods of historical research; (5) a thesis based on the sources.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **European History from the Germanic Migrations to 1871**—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester. Fling, Pfeiffer, Needham
2. **European History**—1 continued. Second semester.
3. **English History to 1558**—Required for the University Teachers'

Certificate in History. Two or three hours attendance. Two or three hours credit. First semester. Pfeiffer

4. **English History after 1558**—3 continued. Second semester.

5. **The Struggle between the Empire and the Papacy**—Prerequisite: Courses 1 and 2. Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. First semester. Pfeiffer

6. **The Crusades**—Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. Second semester. Pfeiffer

7. **German History to 1618**—For students who are preparing to teach German and have had two years of German. Three hours attendance. Three hours credit. First semester. Needham

8. **German History after 1618**—7 continued. Second semester.

45. **Teachers' Course in Greek History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester. Fling

46. **Teachers' Course in Greek History**—45 continued. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

[17. **The French Revolution**—Open to students who have had one year's work in the department. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915.* Fling]

[18. **The Napoleonic Era**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915.* Fling]

19. **Europe in the Nineteenth Century**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. First semester. Fling

20. **Europe in the Nineteenth Century**—19 continued. Second semester.

23. **Seminary on the French Revolution**—One hour attendance. One hour credit. First semester. Fling

24. **Seminary on the French Revolution**—23 continued. Second semester.

59. **Seminary on Napoleonic Period**—One hour attendance. One hour credit. First semester. Needham

60. **Seminary on Napoleonic Period**—59 continued. Second semester.

COURSES PRIMARILY FOR GRADUATES

25. Historical Methods—Detailed lectures on the problems of historical research and construction, accompanied by readings in the best English, French, and German monographs and by practical exercises. One hour attendance. One hour credit. First semester. Fling

26. Historical Methods—25 continued. Second semester.

49. Seminary on French Revolution—One hour attendance. One hour credit. First semester. Fling

50. Seminary on French Revolution—49 continued. Second semester.

57. The Unification of France—One hour attendance. One hour credit. First semester. Fling

58. Unification of France (July, 1789-July, 1790)—One hour attendance. One hour credit. Second semester. Fling

FRENCH

(See Romance Languages)

GEOGRAPHY AND CONSERVATION

State Conservation and Soil Survey

Head Professor Condra, Professor Brownell, Professor Loveland, Associate Professor Bengtson, Miss Griffith

Courses 1, 2 and 4 are required in Forestry and 1, 4, and 28 in Agriculture. The industrial courses 5 and 6 are open to all students. They are introductory to and correlate closely with courses 3 and 4 in the department of Political Economy. Field courses are planned separately for men and women. Courses 1, 5, and 21 are well adapted to the needs of Engineering students. Persons preparing to teach Geography should consult with the head of the department concerning the choice and sequence of courses. The election for majors and minors will vary with the individual needs of the student.

By co-operation with other departments this department is able to offer preparation for work in Soil Survey and Real Estate. Certain courses may be grouped after the general requirements of the Colleges of Agriculture and Arts and Sciences are met, affording specialization along the above lines during the sophomore, junior and senior years. Students wishing to take advantage of this training should elect their Major in the department of Geography and Conservation, and on first consultation with

the departmental adviser should indicate which one of the vocational lines he intends to follow. With approved substitutions and electives students can prepare appropriately in the Civil Engineering and Agricultural groups, for work in soil surveys. Graduate instruction leading to the second and third degrees is offered. These are based on original work done in the laboratory and field.

1. **The Land**—A lecture and laboratory course in practical physical geography. Some of the topics treated are: Materials of the land; common minerals and rocks; structures; relief features; origin and detailed description of the land forms produced by wind, ground water, rivers and glaciers; classification and interpretation of maps. Lectures fully illustrated by lantern slides, maps, models and specimens. Two hours attendance. Two hours laboratory and two hours library preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

2. **North America**—A summary study of the political divisions, relief, drainage, coast lines and climate. A full treatment of each of the seventeen topographic regions, including their structure, physiographic history, topography and drainage, resources and industries, and geographic control of the settlement and development. The Great Plains Region is emphasized. The course is suited to all students who wish a knowledge of the geography of our country. Lectures illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester. Condra, Bengtson

3. **Europe and Asia**—A summary of the larger physiographic features of Eurasia, followed by a close study of the more important commercial countries, especially in their relations to the United States. Chief attention is given the geographic influences which have controlled the industrial development of the different countries. The relations of climate, structure, topography, position, and people to national progress are emphasized. A course designed to be especially helpful to students of history and those contemplating European travel. Open to all. Two hours credit. First semester. *Not given in 1913-1914.* Bengtson]

4. **The Atmosphere**—(Meteorology.) The course is designed to meet the practical needs of students in agriculture and forestry. Some of the topics considered are: The composition of the atmosphere; distribution of heat and atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and the distribution

of people. Students are taught the construction of weather maps and climatic charts, forecasting, and the use and care of meteorological instruments. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First and second semesters. Loveland

5. Industrial Geography—This course is a close study of the mineral fuels, forest, and water resources of the United States and their conservation or development. Detailed studies are made of the regions, processes, and products of the following industries: Coke, coal, petroleum, iron and steel, lumber, turpentine, pulpwood and rubber. Lectures are fully illustrated by slides, charts, and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

6. Agricultural Industries—Practical studies are made of the following industries: Cotton, tobacco, corn, wheat, rice, beet and cane sugars, citrous fruits, apples, cattle and sheep. The processes involved in converting raw materials into the finished articles of commerce are emphasized. The forms, processes, and commercial relation are illustrated by means of specimens and well selected sets of lantern slides. This is a course in practical agricultural technology. Two hours attendance. Four hours library, museum, and preparation. Two hours credit. Second semester. Condra, Bengtson

7. Methods in Physical Geography—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative materials. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester. Brownell, Griffith

11. Teachers' Laboratory Course in Physical Geography—Eight hours laboratory and supervision. Two hours credit. First and second semesters.

(a) Involves working a selected list of exercises suitable for use in high schools. The teacher's problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters. Griffith

(b) Involves class management, preparation for class instruction, mak-

ing of lesson plans, review of examination papers, provision for desk experiments; direction of laboratory work with sections of the Geography classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. Brownell

12. **Laboratory Course in Regional Geography**—Intensive study of selected regions of the United States designed to furnish students the preparation necessary for accurate independent work. Two hours credit. Second semester. Bengtson

17. **Seminar**—Primarily for graduate students. Special research problems. Credit determined by results and time. First semester.

Department Staff

18. **Seminar**—Course 17 continued. Second semester.

Field and Survey Courses

9. **Field Geography**—For women. Excursions are made to points of geographic interest near Lincoln, Milford, Pleasant Dale, Roca, South Bend and Louisville. A study is made of rivers, flood plains, terraces, glacial deposits, rock ledges, escarpments, talus slopes, valleys, quarries, building materials, and sand dredging. Persons wishing the course should consult with one of the instructors before registering. Credit depending on time and results, usually one hour. Griffith, Mrs. Condra

10. **Field Geography**—Course 9 continued. Second semester.

21. **Field Work**—Open to all men students. Excursions are made to the valleys of Salt Creek, Blue River and the Platte to study the various surface features, such as flood plains, benches, talus slopes, scarps and ridges. The sand dredges, gravel pits, clay pits, and quarries are examined and described. Use of the level, camera, and drawing materials as employed in surveys. Interpretation of topographies and origin of different soil types emphasized. Field trips on certain Saturdays. One or two hours credit. First and second semesters. Bengtson

22. **Field Work**—Course 21 continued. First and second semesters.

23. **Soil Survey**—A field course in practical soil classification and mapping. The methods used in state and national surveys exemplified. Designed for Agriculture, Engineering, and special students. Autos are used for field reconnaissance. Only advanced students are registered by permission of head of department. Two hours credit. First and second semesters. Condra

24. **Soil Survey**—Course 23 continued.

28. Agricultural Geography of Nebraska—A course emphasizing the physiography and industries of our home state. The topographic and soil regions are carefully studied, especially with respect to their agricultural relations. Lectures are given by men representing different phases of the state development survey activities. Designed for those who wish to know Nebraska better. Lectures illustrated. Some field trips are made to places of physiographic or industrial interest. Two hours attendance. Two hours credit. Second semester. Bengtson

GEOLOGY

Head Professor Barbour, Assistant Professor Schramm, Miss Barbour,
Miss Webster

It is recommended that as far as practicable Elementary Botany, Chemistry 1 and 2, and Zoology precede the study of Geology. Training in Greek and Latin, and a working knowledge of French and German is especially commended to those pursuing professional courses. Chemistry 21 and 22, Assaying, is strongly recommended to all students of mineralogy. A knowledge of Botany and Forestry is an important aid to Field Geologists.

Candidates for the University Teachers' certificate in this department should complete, for a minor, Courses 1, 2, 9, 13, 13A, and 29. Other courses, meeting special needs, may be arranged upon consultation.

The courses in this department are wholly elective. Courses leading to advanced degrees are arranged, on consultation, to meet the needs of candidates. As far as possible, courses are repeated each semester.

Geology

1. Elementary Geology—Dynamical. Collateral readings, examination and determination of about 200 common minerals, rocks and fossils. Two hours attendance. Two hours credit. First semester. Barbour

2. Elementary Geology—Historical. Second semester. Two hours attendance. Two hours credit.

3. Advanced Geology—Collateral readings. Experimental and laboratory and field work. Credit based on results. First and second semesters. Barbour

7. Practical Course—Special teachers' course. Arranged on consultation. Three to five hours attendance. One or two hours credit. Second semester. Barbour, Webster

8. Map Construction and Interpretation—Teachers' course. Map

drawing and coloring; modelling in papier mache, clay, wax and other media; making plaster and gelatine moulds; casting in plaster of Paris Suited to various grades. One hour credit. First semester.

Barbour, Miss Barbour, Webster

Paleontology

9. **Zoological Geology**—An elementary study and comparison of living and fossil forms. One hour attendance. Two hours laboratory. One hour credit. First semester.

Barbour, Webster

10. **Zoological Geology**—9 continued. Second semester.

11. **Local Paleontology**—Fossils of the state. Designed primarily for teachers. Prerequisite: Course 9. One or two hours credit. First and second semesters.

Barbour, Miss Barbour

12. **Local Paleontology**—Special problems. Designed primarily for graduate students. Credit conditioned on results. First and second semesters.

Barbour

13. **Applied Geology** (Follows Geology 1 or 2)—Elementary lithology, mineralogy, paleontology, field work, map drawing, etc. Designed for students, teachers, and others wishing general information respecting common minerals, rocks, ores, fossils, field and laboratory methods, etc. One hour attendance. Three hours collateral readings. Two hours laboratory. One or two hours credit. First and second semesters.

FOR SPECIAL STUDENTS

For students desiring special work as an aid to mining engineering, civil service appointment for work in geology, forestry, topography, Geology 13 may be combined with any one or more of the following courses:

A—**Elementary Mineralogy and Blowpipe Analysis**—One hour attendance. Three hours collateral reading. Two hours laboratory. One hour credit.

B—**Elementary Paleontology**—Study of index fossils for stratigraphic determination. One hour attendance. Two hours laboratory. One hour credit.

C—**Elementary Lithology**—One hour attendance. Two hours laboratory. One hour credit.

D—**Elementary Crystallography**—One hour attendance. Two hours laboratory. One hour credit.

E—**Elementary Field Work, relief maps, etc.**—One credit hour.

Mineralogy and Crystallography

15. **Mineralogy**—Blow-pipe analysis of minerals. One, two or three hours attendance. Two, four or six hours laboratory. One, two or three hours credit. First and second semesters. Schramm

16. **Mineralogy**—15 continued. First and second semesters.

17. **Crystallography**—Crystallographic forms and measurements, mathematical relations, physical and optical properties. One hour attendance. Two hours laboratory. One hour credit. First and second semesters.

Barbour, Webster

Petrology

29. **Elementary Petrology**—For teachers and others who wish a general knowledge of rocks. One hour attendance. Three hours collateral readings. Two hours laboratory. One hour credit. First semester.

Schramm

30. **Advanced Petrology**—A study of rocks and rock-forming minerals determined by means of physical, optical and chemical methods. Pre-requisite: Courses 11, 13, and 17. One to two hours credit. Second semester.

Schramm

Field Geology

27. **Field Geology**—Study of structure and stratigraphy of type sections in carboniferous, cretaceous, and recent deposits in southeastern Nebraska. Collecting and describing fossils, mapping, photographing, and sectioning quarries, clay and gravel pits. Economic study of brick plants, crushers, dredges, concrete establishments, and drainage canals. Finished report from field notes. One or two hours attendance. Two or four hours field and laboratory. One or two hours credit. First and second semesters.

Schramm, Barbour

31. **Field Work**—Geologic and topographic mapping, with particular emphasis on methods employed by the United States Geological Survey, construction of relief maps from topographic maps made by the students. Finished report from field notes. One or two hours attendance. Two or four hours field and laboratory. One or two hours credit. First and second semesters.

Schramm

Mining Geology

33. **Mining Geology**—A study of the nature of ore deposits; principles and methods of mining; methods of prospecting, locating, mapping, and valuing mining properties; mine timbering; the economics of mining;

laboratory study of common minerals, ore minerals, and associated rocks. Two hours attendance. Four hours laboratory and library. Two hours credit. First and second semesters. Schramm

Engineering Geology

25. **Engineering Geology**—A study of rocks, rock-forming minerals, and materials for structural purposes. Two hours attendance. Four hours library, laboratory, and field. Two hours credit. First and second semesters. Barbour, Schramm

Economic Geology

34. **Economic Geology**—A study of the commercial ore minerals, their occurrence, distribution and economics, with special emphasis upon the ores of iron, copper, zinc, lead, gold and silver. Two hours attendance. Four hours laboratory and library. Two hours credit. Second semester. Schramm

35. **Economic Geology**—A study of the non-metallic minerals, coal, oil, gas, and other hydro-carbons, building stones, clay, cements, saline, and associated substances, fertilizers, abrasives, minor minerals, precious stones, and underground waters. Four hours laboratory and library. Two hours credit. First semester. Schramm

GERMANIC LANGUAGES AND LITERATURES

Head Professor Fossler, Professor Grummann, Associate Professor Schrag,
Assistant Professors Heppner, Baumgartner, Alexis, Adjunct
Professor Chamberlain, Fellows

GENERAL INFORMATION

The organization of the department of Germanics, exclusive of the Scandinavian languages and literatures, provides for four more or less sharply defined lines of instruction, namely: introductory (Courses 1-4); intermediate (Courses 5-10); advanced (Courses 11-20); graduate (Courses 21-27).

Students beginning their study of German in the University with course 1 should, ordinarily, not look towards making German their major. To do so would require more time and strength than they could well spare from their college course.

Those contemplating specializing in Germanics are advised to do co-ordinate work in English, in English literature, Latin or History, more particularly in modern and German history

The requirements for the University Teachers' Certificate are as follows: Major: Courses 4, 5, 6 (or 5a), 7, 8, 19, 20 and at least five semester hours of some advanced literary German. It is also recommended that candidates for this certificate take phonetics, Course 21. Minor: the above mentioned courses with the exception of Course 20 and the more advanced literature.

A Major in the College of Arts and Sciences—not leading to the Teachers' Certificate—requires a minimum of 24 semester hours above courses 1, 2, and 3. To insure wise and careful selection of studies students must advise with the department before registering.

ELEMENTARY COURSES

1. **Beginners' German**—A careful and thorough study of the fundamentals of the language: pronunciation, the inflectional systems, sentence-structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings. Five hours. First and second semesters. Given in Summer Session, 1913.

Grummann, Schrag, Heppner, Chamberlain, Baumgartner, Alexis, Fellows

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Bacon's *Im Vaterland*, Müller's *Neue Märchen*, Blüthgen's *Das Peterle von Nürnberg*, Allen's *Herein*, Seidel's *Leberecht Hühnchen*, Stökl's *Alle fünf*, etc. Conversation and composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

2a. **Beginners' German**—Essentially equal to the foregoing course, although, being designed to accommodate high school students who enter with but two semesters' German, the formal or systematic side of grammar (review) is stressed particularly. Conversation and composition exercises as in course 2. Five hours. First semester.

Chamberlain, Heppner, Fellows

3. **Second Year German**—Modern prose, such as Niese's *Aus dänischer Zeit*, Schrakamp's *Ernstes und Heiteres*, Rosegger's *Waldheimat*, Freitag's *Die Journalisten*, Gerstäcker's *Germelshausen*, Manley's *Drei Wochen in Deutschland*. Systematic elementary composition and conversation based upon Allen's *First German Composition* and upon texts read. Five hours. First semester. Given in Summer Session, 1913.

Schrag, Baumgartner, Chamberlain

4. **Second Year German**—Translation and, as far as possible, discussion in German or more advanced text, e. g., Fulda's *Das Verlorne Paradies*.

Arnold's *Aprilwetter*, Meyer-Förster's *Karl Heinrich*, Mogk's *Deutsche Sitten und Gebräuche*, Sundermann's *Frau Sorge*. Composition: Pope's *Writing and Speaking German*. Students who have had four semesters German in the high school should likewise register in this course. Five hours. First and second semesters.

Grummann, Heppner, Alexis, Chamberlain

INTERMEDIATE COURSES

PRIMARILY FOR UNDERGRADUATES

5. **Third Year German**—Introductory literature, chiefly classical prose and verse, e. g., Lessing's *Minna von Barnhelm*, *Emilia Galotti*, Schiller's *Maria Stuart*, *Jungfrau von Orleans*, Goethe's *Egmont*, *Iphigenie*, Hatfield's *Collection of German Lyrics and Ballads*, or Nollen's *German Poems, 1800-1850*. Three hours. First semester. Given in Summer Session, 1913.

Chamberlain, Baumgartner

6. **Third Year German**—Above course continued with texts already mentioned or with Heine's *Prose*, Schiller's *Tell*, Goethe's *Hermann und Dorothea*. Three hours. Second semester.

Chamberlain

5a. **Third Year German**—A combination of courses 5 and 6. Its object is to afford an opportunity to finish the third year's work to students who complete their fourth semester German mid-year. Five hours. Second semester.

Grummann, Heppner, Baumgartner, Chamberlain

* 7. **Third and Fourth Year German**—Conversation course. The design in this and the following course is to furnish such opportunity for gaining a fairly ready and correct command of spoken German as can be done in the class room. Special attention is paid to colloquial, every-day idioms and expressions. Fossler's *Material for German Conversation*, Thiergen's *Am deutschen Herd*, Hölzel's and Hirt's *Wandbilder*, and similar helps furnish the material. Three hours. First semester. Given in Summer Session, 1913.

Fossler, Schrag, Heppner

* 8. **Third and Fourth Year German**—Continuation of foregoing course. Free composition, close study of grammatical peculiarities. Committing of poems, proverbs, etc.

Fossler, Schrag, Heppner

9. **Third and Fourth Year German**—Earlier Nineteenth Century Dramatists. Selected dramas of Kleist, Grillparzer, Anzengruber, Ludwig, Heh-

* Various university organizations, such as The Verein Germania, Der deutsche gesellige Verein, and The German Dramatic Club afford further opportunities for acquiring a practical knowledge of spoken German.

bel. Introduction to their life, works and theory of art. Three hours.
First semester. Schrag

10. **Third and Fourth Year German**—Continuation of foregoing course. Three hours. Second semester. Schrag

ADVANCE COURSE FOR UNDERGRADUATES AND GRADUATES

11, 12. **Fourth Year**—Advanced literature. Goethe, his life and works: (a) Pre-Weimar period; (b) Italy and post-Italian literary activity; (c) *Faust*, *Kleinere Gedichte*. The entire year is devoted to Goethe. Specially strong students are encouraged to supplement the work of the lecture room by preparing individual reports on various phases of the poet's life and art. Supplementary readings in Grimm, Bielschowsky, Meyer, Thomas, etc. Three or four hours. Fossler

13, 14. **Fourth Year**—The Modern Novel and Drama. Representative works of Hauptmann, Sudermann, Fontane, Kretzer, Halbe, Wildenbruch, Fulda and others. Lectures, reading, and reports. Three hours. Throughout the year. Grumann

13a. **Ibsen**—Reading and interpretation of *Puppenheim*, *Rosmersholm*, *Hedda Gabler*, *Baumeister Solnesz*, *John Gabriel Borkmann*, *Wenn wir Toten Erwachen*, together with lectures on other plays of the author. His influence on German naturalism. Two hours. First semester. Grumann

15, 16. **History of German Literature**—From the origins to the beginning of the Nineteenth Century. Besides reading representative portions of authors or periods under consideration students are required to familiarize themselves with works of reference such as Scherer's *History of German Literature*, Franke's *Social Forces in German Literature*. Kluge's *Deutsche National-Litteratur*. Lectures, readings and reports. Three hours throughout the year. Baumgartner

15a, 16a. **Lessing, His Life and Works**—The chief writings of the reformer of German literature are studied both in regard to their literary and critical aspects. Special attention is paid to the influence of English and French literature upon the beginning of German classicism. *Laokoon*, *Hamburgische Dramaturgie*, *Miss Sarah Sampson*, *Emalia Galotti* and *Nathan der Weise* are read and discussed in class. Supplementary readings, lectures and reports. Two hours throughout the year. Schrag

17. **Germanic Mythology**—A study of the more important Germanic myths, their origin and relation to folk-lore. Two hours. First semester. Grumann

18. **German Hero Lore**—A study of the origin and growth of the Volsunga Saga. A comparative study of Hebbel's *Die Nibelungen*, Wagner's *Der Ring des Nibelungen* and Ibsen's *Nordische Heerfahrt*. Two hours. Second semester.

Grummann

19. **The Teachers' Course**—A survey of the principles underlying the teaching of German. Lectures, assigned readings, papers and reports on topics connected with language teaching in secondary schools. Candidates for the Teachers' Certificate in German are required to teach the language for at least one full semester in the Teachers College High School, under the supervision of the department and a regular supervisory instructor. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts suitable for high school use. The course also includes a thorough review of the chief features of German grammar and the elements of phonetics. Reference books: Frazer and Van Der Smitten's *German Grammar*, Prokosch's *German Grammar*, Bagster-Collins' *German in Secondary Schools*, Bagster-Collins' *First Book in German*, Gronow's *Jung Deutschland*, Victor's *Phonetik*, etc. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 and some advanced literature courses. In all cases students must consult with the instructor before registering for this course. Three hours. First semester. Given in Summer Session, 1913. Fossler

20. **Advanced Conversation and Composition Course**—Continuation of 8 and 19. Werner-Spanhoofd's *Aus Vergangener Zeit*, Paskowski's *Lesebuch*, Kluge's *Themata zu deutschen Aufsätzen und Vorträgen* and material suggested in the latter work. Especially designed to supplement the work of those who intend to become teachers of German. Two hours. Second semester.

Fossler

GRADUATE WORK—MASTER OF ARTS

In order to prosecute graduate studies successfully the student should have had preliminary training in German in at least 30 semester hours above courses 1, 2, and 3. These 30 hours must represent work covered in courses 5 to 20.

In general, a combination of philological and literary advanced work will prove most suitable to the needs and satisfactory progress of the student. Occasionally a greater degree of specialization either in linguistics or literature may be desired and will be permitted if the student has the necessary preliminary training.

The following courses and possible variations are suggested as suitable Majors:

FIRST SEMESTER		Hours
1. Gothic		3
2. Phonetics		* 1
3. History of German Literature.....		3
4. Middle High German.....	}	2
or Modern Literature (Seminar)		

SECOND SEMESTER		
1. Comparative Germanic Philology.....		3
2. Principles of Linguistic History.....		2
3. History of German Literature.....		3
4. Old and Middle High German.....		2
or		
4. Modern Literature }	}	2
5. Thesis.....		

Coordinate Minors may be chosen either from the more advanced undergraduate courses in the department of German or from other departments such as Latin, the Romance Languages, English and English Literature, Philosophy. In all such cases the work elected must be regarded by the department concerned as constituting graduate or advanced undergraduate work. The total Minors for both semesters should represent from 8 to 12 semester hours, and must be chosen with the consent of this department.

COURSES OF INSTRUCTION

21. **Phonetics**—The work is based mainly upon Sievers' *Phonetik*. One hour. First semester. Grumann

22. **Old and Middle High German**—Selections from the older literature. Prose and verse. Two hours. Second semester. Grumann

23. **Middle High German**—Selections from the *Nibelungenlied* *Wolfram von Eschenbach*, *Walther von der Volgelweide*, *Hartman von Aue*, etc. Transition stages between the Middle and the New High German. Two hours. First semester. Grumann

24. **Comparative Germanic Philology**—The fundamental principles of linguistic science, with special reference to the prehistoric relationship, the historical development and differentiation of English and German. Three hours. Second semester. Fossler

25. **Gothic**—Grammar and readings. The language, with respect to its phonology, etymological connections and inflectional system; its relation to the other Germanic dialects. Three hours. First semester. Fossler

26. **Principles of Linguistic History**—The work is based principally upon Paul's *Prinzipien*, and Behaghel's *Die deutsche Sprache*. Two hours. Second semester.

Fossler

27. **Seminary—in German Naturalism**—The influence of foreign literature and social forces upon German naturalism. Psychological criticism and its relation to earlier schools. Two hours. First semester.

Grumann

Scandinavian Languages and Literature

Assistant Professor Alexis

1. **Beginning Swedish**—Elements of grammar with easy readings; sentence-structure; word-building; vocabulary. Geijerstam's *Mina pojkar*. Three hours. First semester.

Alexis

2. **Beginning Swedish**—2 continued. Mauritzon's *Rättskrivningslära*. Modern narrative prose. Selma Lagerlöf's *En herrgårdssägen*. Conversational exercises. Three hours. Second semester.

3. **Advanced Swedish**—Syntax and composition. Selma Lagerlöf's *Nils Holgerssons underbara resa genom Sverige*. Runeberg's *Fänrik Ståls sägner*, etc. Three hours. First semester.

Alexis

4. **Advanced Swedish**—3 continued. Lectures on early Scandinavian culture. The later Swedish literature. Tegnér: *Frithiofs saga*. Three hours. Second semester.

5. **Dano-Norwegian**—Principles of grammar; pronunciation; reading of narrative prose. Björnson's *Synnöve Solbakken*. Two hours. First semester.

Alexis

6. **Ibsen: Brand, and Peer Gynt or some of the Social Dramas**—Class reading and interpretation. Two hours. Second semester.

7. **History of Swedish Literature**—Karl Warburg's *Svensk litteraturhistoria*. Schück's and Warburg's *Illustrerad litteraturhistoria*. John Mortenson's *Från Aftonbladet till Röda Rummet*. Three hours. First semester.

Alexis

8. **History of Norwegian and Danish Literature**—Jaeger's *Den norske Litteraturens historie*. Hansen's *Danske Litteraturens historie*. Three hours. Second semester.

Alexis

10. **Old Norse** (Icelandic)—Kahle: *Altisländisches Elementarbuch*. Mogk: *Gunnlaugs saga ormsstungu*. Two hours. Second semester.

Alexis

GREEK HISTORY AND LITERATURE

Head Professor Lees, Professor Dann

Candidates for the University Teachers' Certificate in this department should complete courses 1, 2, 3, 4, 7, 8, and 10 or their equivalent for a major and courses 1, 2, 3, 4 for a minor. One or two years of the Greek language will be found very helpful and even quite essential to a thorough mastery of the Latin language.

GRADUATE WORK

Master of Arts—Requirements vary somewhat according to the preceding work of the student, but at least three years of study in the Greek language, including courses 1, 2, 3, 4, 5, 8, or their equivalents, should be completed before proceeding to graduate work. Majors and minors are arranged with each graduate student on consultation with the instructors. The following statements may indicate in general the requirements for majors and minors:—Major: At least five hours for a year of class-room work; the entire Iliad or Odyssey read in the original; one Attic author carefully read and style mastered; a thorough knowledge of the history and development of Greek literature from Homer to Aristotle; a thesis. First Minor: Six hours, at least, of class-room work from courses open to graduate students, supplemented by assigned library readings. Second Minor: One-half the amount required for a first minor.

Greek Language

COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Greek**—Essential facts of the language; simple exercises and easy readings. Five hours attendance. Five hours credit. First semester. Lees

2. **Elementary Greek**—Course 1 continued. Xenophon's Story of Cyrus. Simple composition exercises. Five hours attendance. Five hours credit. Second semester. Lees

2b. **The Greek in English**—A study of English words derived from the Greek language. Aims to give such mastery of elementary Greek that the student is able to read Xenophon's Anabasis (Course 3) the following semester. Five hours attendance. Five hours credit. Second semester. Lees

3. **Xenophon's Anabasis**—Selections from Books I-IV. Parallel and supplementary readings from standard histories of Greece. Three hours attendance. Three hours credit. First semester. Lees

4. **The Odyssey**—Three books read consecutively; sight reading from selected passages of the first twelve books. Literary study of the whole poem from the English translation. Three hours attendance. Three hours credit. Second semester. Prerequisite: Courses 1, 2 or 2b, and 3. Lees

5. **Herodotus**—Selected chapters from the History of Herodotus. The Persian invasion of Greece. The battles of Thermopylae and Salamis. Two hours attendance. Two hours credit. First semester. Prerequisite: Courses 1 and 2. Lees

6. **Plato**—The Apology and Crito. Socrates, his method, teachings, trial and death. Two hours attendance. Two hours credit. Second semester. Prerequisite: Courses 1, 2, 3 or 5. Lees

FOR UNDERGRADUATES AND GRADUATES

7. **The Greek Drama—Aeschylus**—The Prometheus Bound, and one other drama. A discussion of the works and literary characteristics of Aeschylus. Three hours attendance. Three hours credit. First semester. Lees

8. **Sophocles**—The Antigone, and one other drama. Greek actors, costumes, and theatre. Three hours attendance. Three hours credit. Second semester. Lees

9. **Euripides**—Two dramas read in the original. Styles and literary characteristics of Euripides. Two hours attendance. Two hours credit. First semester. Lees

10. **Aristophanes**—The Clouds and Frogs. Rise and development of Athenian comedy. Its relation to Roman and later comedy. Two hours attendance. Two hours credit. Second semester. Lees

11. **The Greek Historians**—Selected chapters from the works of Herodotus, Thucydides, and Xenophon. Two hours attendance. Two hours credit. First semester. Lees

12. **The Greek Orators**—Selected orations of Lysias and Demosthenes. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915.* Lees]

13. **Epic Poetry**—Selected readings from the Iliad and the Odyssey. A general survey of the content of the Homeric Poems. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915.* Lees]

14. **Lyric Poetry**—Selections from the leading Lyric poets. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915.* Lees]

[15. **Greek Philosophy**—The *Phaedo* of Plato. A survey of Greek Philosophy. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915.* Lees]

16. **Lucian**—Selected dialogues. An outline history of Greek Literature from Homer to the second century A. D. Two hours attendance. Two hours credit. Second semester. Lees

17. **Prose Composition** (Teachers' Course in Greek Language)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Prose Composition**—17 continued. Second semester.

[19. **New Testament Greek**—Selection from the Gospels. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915.*]

[20. **New Testament Greek**—19 continued. Pauline Epistles. Second semester.]

Greek History and Archaeology

No knowledge of Greek is required in order to pursue the following courses. They are open to all students in any department of the University.

32. **Greek History**—General survey of Greek history from the sixth century B. C. to the conquests of Alexander. Three hours attendance. Three hours credit. First semester. Lees

33. **Greek Literature. The Greek Drama**—Selected Greek drama in English translation. Lectures and library readings on the authors studied. Two hours attendance. Two hours credit. First semester. Lees

34. **Greek Literature. The Greek Drama**—33 continued. Second semester. Course 33 is not a prerequisite. Lees

36. **Greek Archaeology and Antiquities**—Topography, architecture, theatres, temples, social customs, funeral monuments. An itinerary through Greece with lectures and illustrations from photographs and lantern slides. One hour attendance. One hour credit. Second semester. Lees

(For **Sanskrit and Comparative Philology**, see Sanskrit.)

HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Becker

These courses take up vertebrate structure and development from the comparative standpoint and are therefore illustrative throughout of the structural responses to the general factors of evolution. Course 1 is especially adapted to bring out biological facts of wide application and

may be profitably taken by students with only a general biological preparation. Courses 11 and 12 may be adapted to the needs of the general science teacher as an aid to his preparation in physiology. Course 14 will in like manner be adapted to the student of psychology who desires a broader basis on which to place the study of human brain structure.

All courses require the equivalent of the general courses in Zoology and for course 14 comparative vertebrate anatomy and vertebrate embryology are advised.

All the courses offered in this department are of the nature of advanced courses in the field of the biological sciences and may be taken by graduate students who are candidates for higher degrees. These courses are for 1912-1913. No announcement can be made at this time in regard to courses for 1913-1914.

COURSES FOR GRADUATES AND UNDERGRADUATES

1. **General Vertebrate Embryology**—Lectures with text-book for collateral reading covering the field of vertebrate embryology. The laboratory work consists of the study of individual series of chick and pig with additional demonstrations from the shark and frog embryo. With some additional expenditure of time the student may do more of the preparation himself and retain in his possession complete sets of the embryos studied. Two hours attendance. Four or eight hours laboratory. Three or four hours credit. First semester. (If taken with course 11, eight hours laboratory first half first semester, four hours credit.) Willard, Becker

2. **Special Vertebrate Embryology**—For those who desire to carry the study of course 1 into some special field or extend it to the later stages of development, this course will be arranged for individually and may be taken as a two-hour course or more according to time given it. It offers the necessary preparation for research work in embryology. Willard

4. **Comparative Vertebrate Anatomy**—(Those desiring this course should register for Zoology 6, under which name the course is properly listed.) A course providing a broad comparative basis for any subsequent work in embryology, microscopical or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structures of the human body. The adaptation of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development, are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal together with prepared dissections from other forms represent the material used. Anatomical technic is demonstrated to a certain extent in the methods of preservation.

injection of blood vessels and the mounting of permanent dissections. A general course in Zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Willard and Assistants

11. General Histology—This course introduces the subject of the finer cell structure of organs through a study of primary tissues. This is approached from the embryological side so the student sees the process as well as the results of differentiation, giving the subject a broader significance. Arranged to follow a two-hour course in embryology. Two hours attendance. Eight hours laboratory. Second half of first semester. Two hours credit.

Willard, Becker

11a. General and Dental Histology—A course arranged for dental students to cover the histology of tissues and the special histology and embryology of the teeth. Open only to dental students and not accepted as a substitute for any other course. Eight hours laboratory, quiz and recitation. First semester.

Willard, Reese, Barry

12. Organology—The finer structure of the organs of the vertebrate body. The cell structure, blood and nerve supply and functional changes, as far as expressed structurally, are studied by means of microscopic mounts. Three hours attendance. Four hours laboratory. Three hours credit. Second semester. (This course must be preceded by course 11.)

Willard, Becker

14. Vertebrate Nervous System—Structural evolution of the vertebrate brain, illustrated by dissections and sections. The object is to point out the modifications presented by the brains in the groups of vertebrates in connection with certain biological factors, such as the rise or disappearance of sense organs explaining such changes. A general course in Zoology is a prerequisite and a course in Vertebrate Anatomy is strongly recommended. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Willard

HISTORY

(See American History and European History)

JURISPRUDENCE AND PUBLIC LAW

Professor Hastings, Professor Maxey

GRADUATE WORK

Master of Arts—Complete courses, or major or minor courses, are arranged upon application.

Master of Laws—A candidate for the degree of Master of Laws must have received the degree of Bachelor of Laws from this University or from some approved law school, must complete an additional year's work of at least 16 hours a week in the College of Law or the Graduate College or both, and must present a suitable thesis embodying the result of original investigation and research. Before such student shall be entitled to the degree he must complete all the courses, elective as well as required, offered in the College of Law for the degree of Bachelor of Laws.

Jurisprudence

1. History and System of the Common Law—General survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Students taking this course should have had English History. Credit in the College of Law. Two hours attendance. Two hours credit. First semester.

Hastings

2. Roman Law—History and Institutes. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. *Given in 1913-1914 and alternate years.*

Maxey

3. Analytical and Historical Jurisprudence—Introduction to legal theory. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester.

Maxey

Public Law and Diplomacy

1. American Constitutional Law—Cases on constitutional law. Credited to the College of Law. Three hours attendance. Three hours credit. First semester. Students taking this course should have had American History.

Hastings

2. American Constitutional Law—1 continued. Cases on constitutional law. Prerequisite: Course 1. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester.

Hastings

3. American Administrative Law I—Law of public officers; extraordinary legal remedies. Credit in the College of Law. Two hours attendance. Two hours credit. First semester.

Maxey

4. American Administrative Law II—3 continued. Taxation. Credited in the College of Law. Two hours attendance. Two hours credit. Second semester.

Maxey

6. International Law I—Credited in the College of Law. Three hours attendance. Three hours credit. First semester.

Maxey

7. International Law II—Advanced course. Specific problems of international law. Two hours attendance. Credited in the College of Law to students who do not count International Law I. Two hours credit. Second semester. Maxey

8. European Diplomacy—Two hours attendance. Two hours credit. First semester. *Given in 1913-1914 and alternate years.* Maxey

[9. Comparative Constitutional and Administrative Law]—Comparative study of public law of the United States, England, Canada, and Australia. Two hours attendance. Two hours credit. First semester. *Given in 1912-1913 and alternate years.* Maxey]

10. American Diplomacy—Organization. Main diplomatic controversies. Two hours attendance. Two hours credit. First semester. Maxey

[11. Seminary on Consular Service]—Admission upon consent of the instructor. Two hours attendance. Two hours credit. Second semester. *Given in 1912-1913 and alternate years.* Maxey]

MATHEMATICS

Head Professor Davis, Professor Candy, Professor Engberg, Professor Brenke, Adjunct Professor Johnson, Miss Runge, Miss Bennett, Mr. Lefschetz

GRADUATE WORK

The candidate for an advanced degree, whether mathematics be a major or a minor, must have completed mathematics 1, 2, 3, 4, and 7.

MASTER OF ARTS

Second Minor: Differential Equations, Advanced Analytic Geometry. courses 5, 6, 22, and 23.

First Minor: In addition to the above, courses 9, 9a, 20, and 21.

Major: The additional requirements are: (1) Selections, approved by the head of the department, from such courses in advanced mathematics, mathematical physics, astronomy or engineering as are offered during the student's residence; (2) a thesis.

DOCTOR OF PHILOSOPHY

The candidate must have not only an extended general knowledge of mathematics on the basis of the requirements for the degree of Master of Arts, but must also devote special attention to some line of modern research, consulting both standard treatises and the various mathematical

journals. The results of this work are to be presented and discussed from time to time in the mathematical seminary and finally embodied in a thesis.

LIBRARY FACILITIES

The department has a carefully selected library to which additions are constantly made. Leading current periodicals are kept on file, and of these there are several complete sets.

Seminary: The instructors and advanced students meet the first and third Wednesday of each month, 4:30 to 6:00 p. m., for the discussion of current literature, the presentation of the results of investigations, and the solutions of assigned problems. Open to all students who have had one year of mathematics and who are recommended by their instructors.

Requirements for the University Teachers' Certificate—Major (25 hours), courses 1, 2, 3, 4, 8, 9, 9a; minor (12 hours), courses 1, 2, 8, and, if possible, 9 and 9a. It is very desirable that prospective teachers of Mathematics should add all or part of courses 5, 7, 20. They will thus get ideas that will vivify their teaching. It is also desirable that Physics should accompany Mathematics even if to do so the amount of Mathematics taken be diminished. Three points entrance credit in Algebra and three points in Geometry are necessary to enter course 1.

COURSES

A. Solid Geometry—Prerequisite: Five points high school credit. Four hours attendance. Four hours credit. First semester.

1a. College Algebra—Prerequisite: Five points high school credit. Three hours attendance. Three hours credit. First and second semesters.

2a. Trigonometry—Three hours attendance. Three hours credit. Second semester.

NOTE—Courses 1a and 2a are primarily for students in the College of Arts and Sciences.

1. Algebra and Plain Trigonometry—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

2. Analytical Geometry and Calculus—Prerequisite: Course 1 or 2a. Five hours attendance. Five hours credit. First and second semesters.

3. Analytical Geometry and Calculus—2 continued. Five hours attendance. Five hours credit. First and second semesters.

4. Calculus—3 continued. Five hours attendance. Five hours credit. First and second semesters.

5. **Differential Equations**—Prerequisite: Course 4. Three hours attendance. Three hours credit. First semester. Candy
6. **Differential Equations**—5 continued. Second semester.
7. **Theory of Probability**—Three hours attendance. Three hours credit. Second semester. Engberg
8. **College Algebra**—Primarily for those intending to teach mathematics. Two hours attendance. Two hours credit. Second semester. Engberg
9. **History of Mathematics**—Two hours attendance. Two hours credit. Second semester. Candy
- 9a. **Mathematical Pedagogy**—The application of the principles of teaching Mathematics in actual class work in the Teachers College Training School. One hour credit. First and second semesters. Hill
10. **Advanced Algebra**—Three hours attendance. Three hours credit. First semester. Engberg
11. **Advanced Algebra**—10 continued. Second semester.
12. **Theory of Functions**—Three hours attendance. Three hours credit. First semester. Brenke
13. **Theory of Functions**—12 continued. Second semester.
14. **Elliptic Functions**—Three hours attendance. Three hours credit. First semester. Davis
15. **Elliptic Functions**—14 continued. Second semester.
16. **Harmonic Analysis**—Applied to the Partial Differential Equations of Mathematical Physics. Source of these equations. Methods of solution. Theory of Fourier's series. Other series of normal functions. Solution. Three hours attendance. Three hours credit. First semester. Brenke
17. **Harmonic Analysis**—16 continued. Second semester.
18. **Mathematical Logic**—Three hours attendance. Three hours credit. First semester. Davis
19. **Point Sets**—Three hours attendance. Three hours credit. Second semester. Davis
20. **Geometry of Position**—Three hours attendance. Three hours credit. First semester. Johnson
21. **Geometry of Position**—20 continued. Second semester.
22. **Advanced Analytical Geometry**—Prerequisite: Course 5. Three hours attendance. Three hours credit. First semester. Candy

23. **Advanced Analytical Geometry**—22 continued. Second semester.
24. **Modern Geometry**—Two hours attendance. Two hours credit.
First semester. Engberg
25. **Modern Geometry**—24 continued. Second semester.
26. **Imaginaries in Geometry**—Two hours attendance. Two hours credit. First semester. Davis
27. **Imaginaries in Geometry**—26 continued. Second semester.
28. **Differential Geometry**—Two hours attendance. Two hours credit.
First semester. Davis
29. **Differential Geometry**—28 continued. Second semester.
30. **Vector Analysis**—Three hours attendance. Three hours credit.
First semester. Davis
31. **Statistics**—Statistical problems. Interpretation of statistics. This course should be taken in connection with Political Economy 28. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit.
First semester. Engberg
32. **Insurance**—Mathematical principles of insurance, especially of life insurance. This course should be taken in connection with Political Economy 6. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. Second semester. Engberg

Biometry

The mathematical theory of evolution. A mathematical analysis of botanical and biological problems. An extended knowledge of mathematics is not necessary, although of great aid. The work is intended primarily for advanced students in the natural sciences who can apply this work to their researches, but it is open to other students.

35. **A Review of Preliminary Mathematics**—Followed by study of various frequency curves and applications to individual problems. Two hours attendance. Two hours credit. First semester. Engberg
36. **A Review of Preliminary Mathematics**—35 continued. Studies in error correlations of frequency constants, variation, organic correlation, regression, heredity, spurious correlation and fixture of type. Two hours attendance. Two hours credit. Second semester. Engberg
37. **Studies in Organic and Fraternal Correlation and Problems in Heredity**—One hour attendance. One to three hours credit. First semester. Engberg
38. **Studies in Organic and Fraternal Correlation and Problems in Heredity**—37 continued. Second semester.

MILITARY SCIENCE AND TACTICS

First Lieut. Everett N. Bowman, 4th Infantry, U. S. Army, Commandant
Private George F. Johnson, U. S. Army, Assistant Commandant

All male students in the College of Arts and Sciences, the College of Agriculture, the College of Engineering, and the long term students in the Agricultural High School are required forthwith after matriculation to take military drill. The requirements cover four semesters. This is not an elective course, but has been made a requirement by rule of the Board of Regents in conformity with the laws of the United States and of the State of Nebraska.

The work of the military department embraces practical and theoretical instruction in infantry drill, rifle practice and music for the band men.

Upon graduation students who have held cadet commissions receive from the Governor of Nebraska commissions in the State National Guard reserve list, subject to assignment to duty in the Guard.

Students who have had drill elsewhere should bring with them proper credentials in order that they may receive advance credit in the military department.

All students must provide themselves with the prescribed cadet uniform, which can be procured in Lincoln for about twelve dollars.

The Cadet Band is organized as a part of the Cadet Regiment. Men will be assigned to the band upon the approval of the Director of the Band and the Commandant of Cadets.

Military Drill

REQUIRED COURSES

A1. First Year Military Drill—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit.

A2. First Year Military Drill—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows A1.

AA1. Second Year Military Drill—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows A2.

AA2. Second Year Military Drill—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows AA1.

ELECTIVE COURSES

5. **Elective**—For men who have had one semester of drill. Theoretical. Two hours attendance for one-half semester. One hour credit.

6. **Elective**—Follows course 5. Theoretical. Two hours attendance for one-half semester. One hour credit.

7. **Advanced**—Prerequisites: For band men courses A1, A2, AA1, AA2. For others, courses A1, A2, AA1, AA2, 5, 6. Four hours attendance. Two hours credit.

8. **Advanced**—Prerequisites: For band men, courses A1, A2, AA1, AA2, 7. For others, courses A1, A2, AA1, AA2, 5, 6, 7. Four hours attendance. Two hours credit.

9. **Advanced**—Prerequisites: For band men, courses A1, A2, AA1, AA2, 7, 8. For others, courses A1, A2, AA1, AA2, 5, 6, 7, 8. Four hours attendance. Two hours credit.

10. **Advanced**—Prerequisites: For band men, courses A1, A2, AA1, AA2, 7, 8, 9. For others, courses A1, A2, AA1, AA2, 5, 6, 7, 8, 9. Four hours attendance. Two hours credit.

MUSIC

Mrs. Raymond, Director

3. **Chorus Conducting**—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus gives a series of Vesper Services assisted by a string quartet. One of the Grand Operas is studied each year and "*The Messiah*" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Chorus Conducting**—3 continued. Second semester.

(See, also, School of Fine Arts)

PHARMACOLOGY

Professor Lyman, Adjunct Professor Day

5. **General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. No prerequisites. One to two hours attendance. Two to four hours laboratory. One to two hours credit. First semester. Lyman, Day

6. **General Pharmacology**—Continuation of 5. Second semester.

PHILOSOPHY

Head Professor Wolfe, Professor Alexander, Professor Hinman,
Assistant Professor Hyde, Mr. Cornell, Miss Drake

The primary aim of work in Philosophy is to serve as an organizing discipline in a general education, and to correct the narrowness often incident to specialization. It is an efficient means for the development of breadth, balance, culture, and maturity. It lies nearer today than ever before, probably, to the various sciences, social, historical, biological, and physical, on the one hand, and to the requirements of practical life on the other. Students seeking to make this use of Philosophy may begin with either course 1, course 3, or course 4 as early as the first semester of the sophomore year, and should carry a course each semester thereafter, the complete program including both Psychology and General Philosophy. Third and fourth year students may also begin their work in Philosophy with any one of the following courses: 21, 30, 51. After the first introductory semester, courses from all sub-groups within the department are equally open to the student.

Another very important aim of the department is to aid in the professional training of teachers. Those who wish to secure the University Teachers' Certificate must take courses 1 and 2 in Elementary Psychology.

GRADUATE WORK

The department as now organized has full professors representing each main division of the subject. It is well supplied with library and laboratory facilities, and is enabled to offer ample facilities for graduate work.

Major or minor courses for advanced degrees are arranged for in Psychology in Ethics, in Logic and Metaphysics and in History of Philosophy. No special statement of the number of hours required either for the degree of Master of Arts or that of Doctor of Philosophy need be made. Courses are outlined for each individual case in conformity with the general regulations laid down by the Graduate Faculty. Owing to the nature of philosophy as a fundamental discipline in touch with all sciences, graduate students pursuing majors in other specialties will often find a minor in Philosophy of large value.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Psychology**—A general introductory course, including the elements of descriptive, physiological, and experimental psychology. Designed for students who desire more than one semester in psychology.

A good foundation is laid in two semesters for further studies in psychology, philosophy, or education. Botany 1 or Zoology 1 should precede or accompany this course. Not open to first year students. Required for the Teachers' Certificate. Three hours attendance. Two hours laboratory. Three hours credit. First semester. Wolfe

2. **Elementary Psychology**—1 continued. Second semester.

3. **Elementary Psychology**—A briefer course in general psychology for students wishing the minimum requirements in this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1913. Wolfe

4. **Logic, Deductive and Inductive**—Practice in logical analysis, the use of syllogism and inductive methods, and detection of fallacies. Three hours attendance. Three hours credit. First and second semesters.

Hinman

I. Psychology

11. **Experimental Psychology**—Chiefly laboratory work. The student learns to manipulate all standard apparatus, and becomes somewhat familiar with present laboratory problems. Methods of investigation and of dealing with data are considered. In the second semester about half of the time is devoted to intensive investigation of some problem begun early in the year. Two hours credit. First semester. Wolfe

12. **Experimental Psychology**—11 continued. Second semester.

13. **Genetic Psychology**—A comparative study of the animal mind. Readings and discussions on the methods of investigation, materials accumulated, and conclusions reached. Beginning with the lowest animals, evidences of intelligence are sought in several representative groups. Effort is made to realize the resemblances and differences between the mind of the higher animals and that of man. Two hours attendance. Two hours credit. First semester. Wolfe

14. **Genetic Psychology**—A study of the child mind in development. Essentially a course in the evolution of the individual. The class surveys the material of "child study" on infancy, childhood, and adolescence, reviews normal psychology, and studies old age. A few weeks are given to certain typical forms of abnormal mind, arrested development and genius. Two hours attendance. Two hours credit. Second semester. Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. May be applied on required hours in education. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1913. Wolfe

18. **Suggestion**—A survey of the psychology and psycho-pathology of suggestion and allied phenomena. Entrance by permission of instructor. Two hours attendance. Two hours credit. Second semester. Alexander

II. Ethics

21. **Introductory Ethics**—A study of the fundamental principles of morals. Three hours attendance. Three hours credit. First semester.

Alexander

23. **Advanced Ethics**—The object of this course, running for two years, is the intensive study of dominant types of modern ethical systems. Each semester a section of the history of recent ethical debate is chosen for study, and the relevant classical works are analyzed. During 1914-1915 the development of intuitionism, utilitarianism, and idealism will be examined, involving familiarity with the writings of Martineau, Bentham, Mill, Sidgwick, Kant, Green, Bradley and Taylor. Two hours attendance. Two hours credit. First semester.

Hinman

24. **Advanced Ethics**—23 continued. Second semester.

25. **Advanced Ethics**—During 1913-1914 the object of study will be the evolution of man's moral nature and conduct, and the evolutionary theory of ethics. The relation of this theory to utilitarianism and to idealism will be developed, and attention given to the writings of Darwin, Spencer, Stephen, Sutherland, Westermarek, Alexander, Wundt, and Hobhouse. Two hours attendance. Two hours credit. First semester.

Hinman

26. **Advanced Ethics**—25 continued. Second semester.

III. Metaphysics and Philosophy of Science

30. **Introduction to Philosophy**—Develops the philosophical conception of Reality as Mind, and applies it in some detail to the interpretation of the system of the sciences. Deals with such ruling ideas as those of matter, force, life, heredity, evolution, purpose, mind, reason, God. Designed to meet the needs of the scientific and general student, and to serve also as a preparation for further work in philosophy. Lectures. Three hours attendance. Three hours credit. First and second semesters.

Hinman

30a. **Philosophical Themes**—Students who have taken or are taking course 30 may mature themselves in this subject and secure additional credit by preparing papers in connection with assigned topics, and carrying out the library work which these involve. No further class attendance.

One to three hours credit.

Hinman

33. Advanced Metaphysics—A systematic study of the philosophical basis of contemporary physics with special reference to the significance of mechanical explanation. The critical discussions of such men as Rankine, Mach, Pearson, and Poincarè will be examined. The studies of the course are based upon Rey's *La theorie de la physique chez les physiciens contemporains*. Two hours attendance. Two hours credit. First semester.

Hinman

34. Advanced Metaphysics—33 continued. Second semester.

37. Logic of Science—Deals with the nature of conception, judgment, and inference, with reference both to general philosophical results and to the methodology of science. Bosanquet's larger *Logic* is the basis of the course. Two hours attendance. Two hours credit. First semester.

Hinman

38. Logic of Science—37 continued. Second semester.

IV. Aesthetics

41. Philosophy of Criticism—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester.

Alexander

42. Philosophy of Criticism—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus' *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester.

Alexander

V. History of Philosophy

50. Humanism—Historical phases of the conception of culture: The Graeco-Roman ideal of enlightened living; humanism of the Italian Renaissance; the 18th century "Enlightenment" and political humanitarianism; the metaphysical humanisms of today. Three hours attendance. Three hours credit. Second semester.

Alexander

51. History of Philosophy—Survey of the principal philosophical systems in their development and relation to the political and social conditions of their times. Three hours attendance. Three hours credit. First semester.

Alexander

52. History of Philosophy—51 continued. Second semester.

53. Greek and Medieval Philosophy—Special studies in the history of

philosophy for advanced students. One session weekly. Two hours credit.
First semester. Alexander

54. **Greek and Medieval Philosophy**—53 continued. Second semester.

55. **Modern German Philosophy**—Rudolph Eucken. Reading of the text in German will be required. Two hours attendance. Two hours credit.
First semester. Hyde

56. **Modern German Philosophy**—55 continued. Second semester.

57. **German Idealism**—Kant and Hegel. First semester devoted to the Critical philosophy. Brief study of background of Criticism in English Empiricism; careful study of teachings of Kant's three Critiques. Two hours attendance. Two hours credit. First semester. Hinman

58. **German Idealism**—57 continued. Development of Kantian doctrine in its idealistic phases by his successors briefly traced; culmination of post-Kantian Idealism, studied at length in Hegel's *Smaller Logic*. Second semester. Hinman

57a. **English Empiricism in the Nineteenth Century**—Mill and Spencer. After a brief study of Hume, the development of Empiricism will be traced in the Associational school, and its culminating phases in the philosophical views of John Stuart Mill will be analyzed in detail. Two hours attendance. Two hours credit. First semester. Hinman

58a. **English Empiricism in the Nineteenth Century**—57a continued. Spencer's *Synthetic Philosophy*. Second semester.

VI. History and Philosophy of Religion

60. **Philosophy of Religion**—Nature and meaning of religion and grounds of religious beliefs in view of the rational interpretation of the universe made by modern science and philosophy. Origin and evolution of religion, the psychology of religion, arguments for the existence of God, modern conceptions of God and Immortality. One hour attendance. One hour credit. Second semester. Hinman

61. **History of Religion**—After an examination of the origin of religion and its form among primitive peoples its history is traced at some length among the Aryans, and more briefly among Chinese, Japanese, Egyptians, Babylonians, and Semitic races. The greater religions are analyzed in order to explain and evaluate the philosophical views which they involve. Three hours attendance. Three hours credit. First semester. Hinman

62. **History of Religion Among the Hebrews** (briefer course)—Essentially a library course on the development of Israel's religious ideals, as

reflected in the Old and New Testaments, and interpreted in the spirit and by the methods of the higher criticism. Open only to students who have had course 30 or course 61, or other work of equal value for training to critical and constructive thinking in this field. Lectures, conferences, and readings. Three hours credit. Second semester. Hinman

63. Philosophy and Psychology of Religion—Advanced course. An extensive survey of recent literature primarily in the philosophy of religion and in the psychology of religion so far as this has an immediate bearing upon philosophical issues. Two hours attendance. Two hours credit. First semester. Hinman

64. Philosophy and Psychology of Religion—63 continued. Second semester.

PRIMARILY FOR GRADUATES

71. Psychological Seminary—The year will be given to the study of some problem, or group of closely allied problems, to be definitely determined by the interests of the members of the seminary. Seniors who have had 1 and 2. and who are taking 11 or 12 may elect this course. During the year 1913-1914 the Psychology of Movement, or the Psychology of Interest, may be considered. Two hours attendance. Two hours credit. First semester. Wolfe

72. Psychological Seminary—71 continued. Second semester.

73. Ethical Seminary—Study of special problems in ethics. Two hours attendance. Two hours credit. First semester.

74. Ethical Seminary—73 continued. Second semester.

75. Seminary in Logic and Metaphysics—Two hours attendance. Two hours credit. First semester. Hinman

76. Seminary in Logic and Metaphysics—75 continued. Second semester.

PHYSICAL EDUCATION

Head Professor Clapp, Assistant Professor Gittings, Adjunct Professor Day, Instructor Beghtol and ———

GENERAL INFORMATION

The practice courses in physical education are open, as electives, to men. No student may take work in the department without regular registration.

Members of all classes in physical education and of all University athletic teams are required to take a physical examination at the begin-

ning of the college year or at the beginning of the semester in which that training begins.

Unless excused, all women are required to take physical training four days per week for the first two years.

The general health of all women is carefully looked after by the director of the women's gymnasium and the examining physician for women. Special medical gymnastics is arranged for those whose health does not permit them to take the general class work.

Men are required to wear gray Turner trousers, navy blue sleeveless jerseys and heelless shoes. Women are required to wear uniform gymnasium suits, which should, *under no conditions*, be ordered before consulting the instructor.

TEACHERS' CERTIFICATE IN PHYSICAL EDUCATION

The University Certificate in Physical Education is granted to graduates of the University who have satisfied all the special requirements given below and whose work in general, special and professional subjects has been of a high order. Graduates from other universities and from colleges of high rank may receive this certificate upon the same terms as graduates of this institution. Students not graduates of this University or of institutions of equal rank, who complete this course, receive statements to that effect and also credit toward a degree for their work. Requirements: Rhetoric 1 and 2; Chemistry 1 and 2; Zoology 1, 2 and 7; Anatomy 15 and 16; Physiology 1 and 2; Philosophy 1 and 2; Physical Education (theory) 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 17, 18, 19, 20, 39, 40, 41 and 42 for both men and women (except 5 and 20, which are not required of women); Physical Education (practice) 13, 14, 15, 16, 31, and 32 for men, 21, 22, 23, 24, 33, and 34 for women. Ability to use the common strokes in swimming is also required. The professional work for the certificate should be taken with other undergraduate studies.

Physical Education—Theory

2. **Physical Diagnosis**—Theory and practice of normal and abnormal physical signs of the thoracic organs. Two hours attendance. Two hours credit. Second semester.

Clapp

[3. **Anthropometry**—History. Measurements, their statistical and diagnostic value. Practice in taking and recording measurements and in making charts. Laws of human proportion. Average, mean, and ideal types. Analysis and critical inspection of measurements and personal histories for

determining fitness for gymnastic work. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Gittings]

[4. **Applied Anatomy**—Muscles and their relation to common gymnastic and athletic movements. Presupposes a knowledge of anatomy. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Gittings]

5. **General Athletic Training**—Theory of training for all branches of athletics. Ancient and modern methods compared. Diet, sleep, bathing and rubbing. One hour attendance. One hour credit. First semester. Clapp

[7. **Kinesiology**—Aims, varieties and effects of gymnastic movements. Swedish and German methods. Gymnastic terminology. Hygienic, educative and recreative exercises. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Gittings]

[8. **Physiology of Bodily Exercise**—Physiological features of training. breathlessness, fatigue and stiffness. Testing respiratory movements and circulation before and after exercises. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Clapp]

9. **Emergencies**—First aid treatment in case of accidents, such as fractures, dislocations, wounds, hemorrhages, poisoning and drowning. Bandaging, nursing, and general care of the sick. Recitations and demonstration. One hour attendance. One hour credit. Gittings

[10. **Medical Gymnastics and Prescription of Exercise**—Corrective gymnastics as applied to abnormal conditions. Special lectures to women on pelvic anatomy. Massage. Theory and practice. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Gittings]

11. **History and Literature of Physical Education**—Ancient and modern literature covered by assigned readings, digests, reports, discussions and lectures. One hour attendance. One hour credit. First semester. Gittings

12. **Methods and Equipment of a Department**—Gymnasium and athletic field; construction, equipment, organization, rules and management. One hour attendance. One hour credit. Second semester. Clapp

17. **Methods in Teaching**—(Consult instructors before registering). Two hours attendance. Two hours credit. First semester. Gittings

18. **Methods in Teaching**—17 continued. Second semester.

19. **Track Athletics**—Theory—The technique of standard track and field events and systematic preparation for indoor and outdoor contests. Practice—Proper form in events mentioned above; and general physical work for training purposes. Two hours theory. Three hours practice and outside readings. Two hours credit. First semester. Clapp, Reed

20. **Track Athletics**—19 continued. Second semester.

39. **Playgrounds**—Philosophy of play. Aims and purposes of the play ground. Organization, construction, equipment, administration and management. Playground activities; games, festivals, and social work. Lectures, readings, reports and practice. Two hours attendance. Two hours credit. First semester. Gittings

40. **Playgrounds**—39 continued. Second semester.

Hygiene and Physical Education

41. **Personal Hygiene**—Chemistry of Digestion; Foods, their sources, digestibility and value; Standard diet tables; Stimulants and narcotics; respiration and circulation; bathing and clothing; care of the eye; exercise and its effect on the system; sleep and recreation; special hygiene and eugenics.

Physical Training—The equivalent of Physical Education 21 or Physical Education 23 for young women. For the present, practice work for men in Physical Education 13 and 15. Five hours attendance. Two hours lecture. Three three-fourths hour periods in physical training, and outside readings. Three hours credit. (Regular floor classes in Physical Education 21, 23, or 25 may be substituted for above floor section. One hour of credit in above course will apply towards the four hours required of all young women, in Physical Education, or all young men excused from Military Drill and required to substitute Physical Education in lieu of same.)

Clapp, Day, Beghtol

42. **Hygiene**—41 continued. Public hygiene and sanitation; infections and contagions; diseases, their transmission and prophylaxis; heating; lighting; ventilation; drainage; plumbing; immediate and final sewage disposal. Physical Training—The equivalent of 22, 24, or 26 for young women. For the present, practice work for men in 14 and 16.

Clapp, Day, Beghtol

Physical Education—Practice

MEN—FIRST YEAR

13. **Gymnastics**—(a) Light Gymnastics, free-hand body building, dumb-bells and wands.

(b) Heavy Gymnastics—elementary apparatus work and parallel bars, side and long horse, buck, vaulting and horizontal bars and tumbling.

(c) Recreative Gymnastics—Games and contests. Three hours attendance. One hour credit. First semester.

14. **Gymnastics**—13 continued. (a) Light Gymnastics—Continuation of previous semester's work, Indian clubs and elementary gymnastic dancing.

(b) Heavy Gymnastics—Continuation of previous semester's work.

(c) Recreative Gymnastics—Continuation of previous semester's work. Boxing and wrestling. Second semester.

Students who have registered and received credit for courses 13 or 14 will not hereafter be allowed to re-register for the same course.

MEN—SECOND YEAR

15. **Gymnastics**—Advanced light and heavy gymnastics. Games and contests. Wrestling and fencing. Courses open to men who have completed Physical Education Courses 13 and 14 or their equivalent. Two or three hours attendance. Two-thirds or one hour credit. First semester.

Clapp

16. **Gymnastics**—15 continued. Second semester.

31. **Leaders' Class**—Members must be proficient in all forms of gymnastics. Consult instructor before registering. One hour credit. First semester.

Clapp, ———

32. **Leaders' Class**—31 continued. Second semester.

WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half-hours attendance. One hour credit. First semester.

Gittings, Beghtol

22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four half-hours attendance. One hour credit. Second semester.

WOMEN—SECOND YEAR

23. **Light Gymnastics**—Military marching. German gymnastics, dumbbells, wands, and Indian clubs. Elementary exercises on horse, parallel bars, flying rings and buck. Athletic and gymnastic games. Folk and artistic dancing. Four half-hours attendance. One hour credit. First semester.

Day

24. **Light Gymnastics**--23 continued. Basket-ball, indoor baseball, field hockey and tennis. Four half-hours attendance. One hour credit.

25. **Normal Course**—This brief course of Normal Training in Physical Education is planned primarily for students of the Teachers College who wish to teach elementary gymnastics or playground work in connection with other high or grade school work. Announcement will be made later regarding a supplementary course to be offered in 1914-1915. Practice in Swedish and German gymnastics; apparatus and folk dancing; instruction in indoor and outdoor gymnastics; games and athletics; the general theory of gymnastics and the physiological reasons for different types of exercises will be discussed, and opportunity offered for practice in teaching gymnastics. Work in this normal course will be accepted as the equivalent of the usual courses 21, 22, 23 and 24, required of all young women, and credit will apply towards the four hours required of all young women for graduation. Attendance three three-fourths hours per week. One hour credit. Gittings

26. **Normal Course**—25 continued. Second semester.

29. **Advanced Heavy Gymnastics**—Open only to those who have attained proficiency in heavy gymnastics. Three hours attendance. One hour credit. First semester. Clapp, ———

30. **Advanced Heavy Gymnastics**—29 continued. Second semester.

33. **Light and Heavy Gymnastics** (For Normal Training students only)—Advanced Swedish gymnastics on stall bars, boom, parallel bars, ropes, poles, etc. Swedish song-games, folk and aesthetic dancing. Indoor baseball, tennis, basket-ball and swimming. Six hours attendance. Two hours credit. Gittings, Day

34. **Light and Heavy Gymnastics** (For Normal Training students only)—33 continued. Advanced work with dumb-bells, wands and Indian clubs. Advanced apparatus work on horse, parallel bars, flying and traveling rings, spring board, buck, etc. Fencing. Six hours attendance. Two hours credit.

PHYSICS

Head Professor Skinner, Professor Moore, Professor Almy, Associate Professor Tuckerman, Mr. Tool, Mr. McComb, Mr. Spencer

Two distinct series of courses are offered in physics to undergraduates. They differ in the requirements for admission and in the thoroughness of the work.

The first series (1, 2, 3, 4) is prescribed for engineering students. It culminates in 5 and 6 for electrical engineering, with, in addition, 17 and 18 for those taking a major in physics in the College of Arts and Sciences. It is open to students who have two points entrance credit in physics, or sixty university hours.

The second series (11, 12, 13, 14) is designed for those desiring to study physics from a more purely philosophical—less mathematical—standpoint, and in its relation to other sciences and to natural phenomena. It is open to the students of any college who have *completed* their college entrance requirements.

For the University Teachers' Certificate, courses 1, 2, 3, 4 (three hours each), 15 and 16; or 11, 12, 13, 14, 15, and 16 are required for a major in physics. For a minor 15 and 16 may be dropped from the requirement for a major.

GRADUATE WORK

For graduate students instruction is given in both theoretical and experimental physics. Lectures are given in the general theoretical branches and are offered on special topics in which the lecturer is immediately interested.

In theoretical physics courses 21, 22, 23, 24 are given in a sequence of four semesters with four hours lecture weekly, while the others are given as the occasion demands.

For the degree of Master of Arts the candidate may offer simply a major in physics, but is advised to offer also a minor in mathematics. In addition to a completed investigation a fair knowledge of theoretical physics is expected. For attaining this degree two years graduate work is usually necessary.

For the degree of Doctor of Philosophy the same progress beyond the Master's as that represents over the baccalaureate is required. In addition to the work in physics and mathematics the candidate must offer also a minor in either chemistry, astronomy or philosophy.

General Physics

COURSES PRIMARILY FOR UNDERGRADUATES

1. **General Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments and one recitation. Three hours laboratory. Three hours credit. First semester. Almy, McComb, Spencer
2. **General Physics**—Heat and sound. As in 1. Second semester.
3. **General Physics**—Electricity. This course extends into the second

semester. Two hours lecture with illustrative experiments. Three hours laboratory. Two or three hours credit. First semester.

Almy, Moore, Spencer

4. **General Physics**—Electricity and light. Prerequisite: Course 3. As in 3. Second semester.

5. **Problems in Electricity**—(Taken with course 4, but not preceding it.) Two hours attendance. Two hours credit. Second semester.

Tuckerman

6. **Electrical Measurements**—(Prerequisite: Courses 3 and 5.) Eight hours laboratory. Three hours credit. First semester.

Tuckerman

11. **Arts Course in General Physics**—Mechanics, sound and heat. For the nature of this course and conditions for admission see above. Three hours lecture with illustrative experiments and one recitation. Three hours laboratory. Three hours credit. First semester. Skinner, Tool, Spencer

12. **Arts Course in General Physics**—Electricity and light. A continuation of 11. Three hours credit. Second semester.

13. **Advanced Physics for Arts Students**—This is designed to follow courses 11 and 12. Three hours lecture. Three hours laboratory. Three hours credit. First semester.

Skinner, Tool

14. **Advanced Physics for Arts Students**—A continuation of 13. Three hours credit. Second semester.

15. **Teachers' Special Methods in Physics**—Discussion of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high school generally. Such understanding and organization of the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Courses 1, 2, 3, 4, or 11, 12, 13, 14. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1913.

Brownell

15b. **Teachers' General Course in Physics**—Primarily for Summer School. The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative, for laboratory and for lecture table. Organization of the subject-matter to be taught in connection with such experiments. Parts of subject presenting special teaching difficulties in high school work given careful exposition. The laboratory

work a series of exercises fundamental in the teaching process. Two hours attendance. Four hours laboratory. Two hours credit. Given in Summer Session, 1913.

Brownell

16. Teachers' Laboratory Course in Physics—A semester of teaching of classes in high school physics under closest critical supervision. Involves (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of high school physics classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Physics 15. Two hours conference. Four hours laboratory. Three hours teaching. Two hours credit. First and second semesters.

Brownell

17. Exact Physical Measurements—In heat, the determination of freezing and boiling points; in electro-chemistry, the study of electrolysis, conductivities, electromotive forces and electrolytic polarization; in optics, the use of the spectroscope, diffraction grating, interferometer, polariscope and accessories. Open to students who are taking special work in physics, chemistry, or astronomy—the experiments being selected to fit the demands of their specialty. One hour reading. Six hours laboratory. Three hours credit. First semester.

Moore

18. Exact Physical Measurements—As in 17. Second semester.

FOR UNDERGRADUATES AND GRADUATES

19. Advanced Experimental Physics—Exact determination of physical constants, requiring a careful duplication of some classic experiments in physics, in which a single experiment is expected to cover a period of about one semester, or an introduction to research. Fifteen hours laboratory. Five hours credit. First semester.

Skinner, Moore, Almy

20. Advanced Experimental Physics—As in 19. Second semester.

PRIMARILY FOR GRADUATES

Research—Original investigation of some problem in physics. No time limit imposed. Less than fifteen hours a week is not advisable.

Skinner, Moore

Theoretical Physics

PRIMARILY FOR GRADUATES

21. Dynamics of Discrete Particles—Formal development of the general principles of mechanics: D'Alembert's Principle; Gauss' Principle of

Least Constraint; Hamilton's Principle of Least Action; La Grange's Equations; Hamilton's Canonical Equations; applications to special problems. Four hours lecture. Four hours credit. First semester.

Tuckerman

22. **Elasticity and Hydrodynamics**—*Elasticity*: Deformations of homogeneous media, isotropic and crystalline; vibrations of isotropic media; applications to special problems. *Hydrodynamics*: Irrotational and vortex motions; scalar and vector potentials; application to mechanical theories of electromagnetic phenomena. 21 continued. Second semester.

Tuckerman

23. **Electricity and Magnetism**—The fundamental equations of Maxwell, applied to the theory of Static, Stationary, Quasistationary, and Kinetic Electromagnetic fields. A short outline of Vector Analysis and Quaternions (Hamiltonian and Continental Notations) is given as an introduction. Four hours attendance. Four hours credit. First semester.

Tuckerman

24. **Electro-Optics**—Electromagnetic oscillations and their application to the theory of light. 23 continued. Second semester.

Tuckerman

25. **Thermodynamics**—Development of the principles of thermodynamics from the two "fundamental laws." Two hours credit. One semester.

Skinner

26. **Heat Radiation**—Thermodynamic theory of radiation. Two hours lecture. Two hours credit. One semester.

Skinner

27. **Theory of Sound**—Theory of small oscillation of strings, bars, and air columns; propagation of sound. Three hours credit. One semester.

Almy

28. **Optics**—Theory of ray systems; application to optical instruments. Three hours credit. One semester.

Skinner

29. **Thermo- and Electro-Chemistry**—Three hours credit. One semester.

Moore

30-31. **Theory of Changes of Physical State and Chemical Constitution of Bodies**—Two hours credit. First and second semesters.

Moore

32. **Electric Conduction in Gases**—Faraday's law; ionic velocities; cathode rays; radioactivity; electron theory. Two hours credit. One semester.

Skinner

Physical Colloquium—Instructors and graduate students meet weekly for presentation of short papers on the progress of their investigations and those reported in current periodicals.

PHYSIOLOGY

Professor Guenther, Dr. Welch

A consideration of the facts and theories of vital phenomena with special emphasis upon secretion, digestion, absorption, metabolism, circulation, respiration, animal heat, the central nervous system, special senses and reproduction.

Courses 1 and 2 are intended for students desiring a general knowledge of human physiology. Although they are open to all students a preparatory year in general zoology is highly recommended. Students must not enter upon courses 12 and 13 without the prerequisite courses in general biology, physics, chemistry, histology, mammalian anatomy, embryology, and neurology required of medical students.

Candidates for advanced degrees must have completed the general scientific course in this University, or its equivalent. The ability to read French and German is desirable. Candidates will consult with the head of the department before registering.

Master of Arts—Second Minor: Courses 1 and 2. First Minor: Courses 1 and 2 and assigned reading. Major: Courses and 1 and 2, assigned reading and thesis.

Doctor of Philosophy—First or Second Minor: Courses 1, 2, and assigned reading. Major: Completion of an investigation acceptable for publication in some standard journal of science.

1. **Human Physiology**—Lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester. Guenther

2. **Human Physiology**—1 continued. Second semester.

12. **Advanced Physiology**—Four hours quiz. Eight hours laboratory. Six hours credit. Second semester. Guenther

13. **Advanced Physiology**—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester.

14. **Physical Diagnosis**—One hour quiz. Two hours laboratory. One hour credit. Second semester. For medical students. Welch

POLITICAL ECONOMY AND COMMERCE

Head Professor Le Rossignol, Professor Virtue, Assistant Professor Stephens, Dr. England

UNDERGRADUATE WORK

Order of Studies—Students who can take but one course in Political Economy are advised to take course 1. Those who expect to take several

courses may begin with course 1, which is prerequisite to all but courses 3, 4, 5, 5a, 7, 8, 9, 10, 11, 12, and 14; or they may begin with some of these more descriptive courses, which give a good preparation for course 1.

Major and Minor Requirements—Students taking a major (24 hours) in Political Economy are required to take courses 1, 2, 9, 10, 15 and 16, and are advised to take also courses 19, 24, 25, 26, 31, and 35. Students taking a minor (15 hours) in Political Economy are required to take courses 1 and 2.

SCHOOL OF COMMERCE

The Regents have authorized the creation of the School of Commerce for the purpose of giving professional training to students preparing for a business career, for employment in certain branches of the public service and for the work of teaching Political Economy and Commerce in high schools and colleges. Special courses will be provided in Accounting and Business Administration and a bulletin will be prepared which will be ready for distribution about the first of August. Copies may be had on application to the Registrar.

Vocational Training—Many of the courses in Political Economy are of special value to students preparing for agriculture, engineering, law, journalism, the public service, insurance, banking, or other lines of business activity, and students should plan their courses in consultation with the instructors of the Department with such ends in view.

GRADUATE WORK

Candidates for the degree of Master of Arts are required to complete at least one year's work and to present a satisfactory thesis, showing ability to carry on independent investigation and to assemble the results. A candidate may give all of his time to economic studies or he may offer a major (18 hours) in one department and a minor (12 hours) in another.

Candidates for the degree of Doctor of Philosophy are required to complete at least the equivalent of three years work after taking the Bachelor's degree, or two years work after the Master's degree, but the degree will not be granted unless the candidate attains a satisfactory standard of scholarship, irrespective of time of residence or study. In addition to his major course, which should represent about three-fifths of the total work, the candidate may offer either one minor or two. Candidates taking a major in Political Economy are usually advised to take minors in History, Political Science, Philosophy, Geography or other subjects more or less closely related to the major. In every case a thesis is required, embodying the results of an original investigation.

The University offers excellent opportunities for graduate study and research. Several important libraries are accessible to students, and there is no lack of promising fields of investigation, particularly along lines of public and private finance, economic history of Nebraska and the West in general, agricultural conditions, commercial relations and problems of capital and labor. The Department offers a number of special courses, and these may be supplemented by allied courses in other departments.

COURSES PRIMARILY FOR UNDERGRADUATES

1. Principles of Political Economy—Elementary course. Preliminary view of the subject. Intended as a preparation for the more special courses offered in the Department. The industrial organization of society; development of natural resources; occupations and the division of labor; production, exchange and distribution of wealth; utility and value; wages, interest, rent and profits; money and credit; rise and fall of prices and the cost of living; transportation; domestic and foreign commerce; protection and free trade; trusts and trade unions; state and municipal ownership; socialism. (This course is prerequisite to all of the following except courses 3, 4, 5, 5a, 7, 8, 9, 10, 11, 12 and 14.) Three hours attendance. Three hours credit. First and second semesters. Four sections in the first semester and two in the second. Given in Summer Session, 1913.
Le Rossignol, Virtue, Stephens, England

2. Money and Banking—Origin of money; early forms of currency; metallic money; credit money; monetary history of the United States; bimetalism; the gold standard; relation of money and credit to the general level of prices; nature and use of credit; domestic and foreign exchange; history and theory of banking; banking systems of Great Britain, Germany, France and Canada; national, state and private banks; practical banking; proposal for banking reform. Three hours attendance. Three hours credit. Second semester.
Le Rossignol

3. American Industries—A study of typical agricultural, extractive, and manufacturing industries of the United States. After tracing the principal raw materials from the producer to the factory, the various processes involved in manufacturing finished products are outlined. Then the finished products are traced to the consumer, great emphasis being laid upon marketing and shipping problems. Some of the industries are covered by lectures by the instructor and some by co-operative topical work on the part of the students. Two hours attendance. Two hours credit. First semester.
Stephens

4. Geography of Commerce—A general survey of the fundamental con-

ditions and human agencies affecting industrial and commercial development, followed by a careful study of the natural resources, industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relations between countries. (For a discussion of the physical basis of commerce attention is called to courses 5 and 6 of the Department of Geography.) Two hours attendance. Two hours credit. Second semester.

Stephens

5. Elementary Accounting—This is intended as a course introductory to the more advanced and theoretical course in accounting. On the one hand, the primary principles of bookkeeping by double entry are explained, giving special attention to nomenclature and classification: this is the theory of accounts. On the other hand, much time will be given to practice in the keeping of accounts, in the study of the business transaction, the necessary papers belonging to the transaction, and the proper record of the same in books of account. Open to first and second year students only. Prerequisite to course 5a. Three hours attendance. Three hours credit. First semester.

Stephens

5a. Accounting—An interpretation of the fundamental principles of modern accounting from the standpoint of business manager and accountant. The course includes a study of the balance sheet, the assets and methods of valuation, the loss and gain account, cost accounts, the depreciation account, capital, surplus, reserve, and sinking funds. The treatment of the course centers about mercantile and manufacturing accounting. Open to students who have taken course 5 or its equivalent. Three hours attendance. Three hours credit. Second semester.

Stephens

6. Insurance—The historical development of marine, fire, life, accident, health, liability and other forms of insurance is briefly outlined, and their economic importance shown. The essential features of insurance administration, governmental control and supervision of insurance companies, the various methods of computing premiums, the organization and management of agencies, taxation of insurance companies, and other important questions are discussed. Special attention is given to a detailed comparative study of the chief provisions in various sample policy contracts. (Students desiring to study the mathematical basis of insurance are advised to take Mathematics 32.) Three hours attendance. Three hours credit. Second semester.

Stephens

[7. History of Commerce]—The development of commerce during mediæval and modern times; bases of commercial prosperity; relation of the

state to trade and industry; growth of commerce during mediaeval and modern times; bases of commercial exchanges; trading companies and corporations; development of shipping and the art of navigation; commercial policy of leading nations and an examination of the theories upon which they have rested. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.*

Virtue]

[8. **Economic History of England**—A study of the stages through which English industry has passed: The agricultural organization under feudalism and its breakdown; important changes in agriculture in the 18th and 19th centuries; the evolution and organization of manufactures; the guild and domestic systems; the rise of the factory system and its social and industrial results; the industrial revolution; commercial history; the mercantile system and its decline; recent movement for protection; England's present industrial position. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.*

Virtue]

9. **Economic History of the United States**—This course deals with the main lines of our industrial development from the colonial period to the middle of the 19th century. The chief topics discussed are colonial industries and commerce; the economics of the Revolution; the settlement of the West; the growth of fundamental industries; commerce and shipping; commercial policy, including the early history of the tariff; financial history, including monetary and banking arrangements; history of manufactures; labor systems and organizations. Two hours attendance. Two hours credit. First semester.

Virtue

10. **Economic History of the United States**—A continuation of course 9, showing the economic development of the United States from the middle of the 19th century to the present time. The general lines indicated in course 9 are followed and new subjects are treated as they arise, such as westward expansion, land policy of the government, development, transportation, the economics of slavery, agrarian and labor movements, corporations and trusts, the growth of domestic and foreign commerce. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1913.

Virtue

11. **The Economics of Colonization**—The economic objects and importance of present-day colonization—Nature of state expenditures whether for military or developmental purposes. Does state expenditure for colonies pay? Does trade follow the flag? Do colonies provide an outlet for capital? Will the white man settle the tropics? Especial attention given

to American colonization and to African colonial problems. Three hours attendance. Three hours credit. First semester. England

12. Economic Development of the Far East—Monetary reforms in the Orient; extension of banking, investment of Western capital; projection of railways; opening of mines; development of commerce; share of Europe and America in Oriental trade; economic value of Central Asia; effect of industrial development of Japan and China upon the political control of Asia. Three hours attendance. Three hours credit. Second semester. England

14. Economics of Agriculture—A study of farm organization and management; size of farm units; forms of tenure; problems of tenancy; methods of marketing farm products; co-operation in selling and buying in the dairy industry, in supplying credit and insurance; social conditions of rural life. Text-books, reports and discussions. Two hours attendance. Two hours credit. First and second semesters. Virtue

FOR GRADUATES AND UNDERGRADUATES

15. History of Economic Thought—Economic theory in ancient and mediaeval times; beginnings of economic science; Mercantilists, Cameralists and Physiocrats; Adam Smith, Malthus, Ricardo, J. S. Mill and other classical economists; Karl Marx and the economics of Socialism; Roscher and the Historical School; Jevons and the Austrian School; relation of industrial conditions to economic theory. Students registering in this course are expected to continue in course 16. Two hours attendance. Two hours credit. First semester. Le Rossignol

16. Recent Economic Theory—A continuation of course 15. A special study of recent English and American economists. The subject is changed from year to year. Last year the works of Marshall and Taussig were used as the basis of the course; this year a special study will be made of the works of Irving Fisher and each member of the class will select some one other writer for special study. Two hours attendance. Two hours credit. Second semester. Le Rossignol

[17. Financial History of the United States—The course covers the field of the financial operations of the Federal government since 1789, but gives special prominence to the period since 1860. It deals with sources of Federal revenue and objects of expenditure; the movement of the public debt and its management; the evolution of our monetary and banking systems and current movements for their reform. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Virtue]

[18. **Tariff History of the United States**—While the tariff policy of the United States and its relation to industry and trade is the chief subject of study, the course includes also a survey of the tariff systems of other countries; a study of the merits of protection and free trade; our reciprocity agreements and their results; the consular service and its effects on trade development; the history of American shipping, the causes of its decline, the proposed methods of restoring it; recent progress and change in the character of our foreign trade. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Virtue]

19. **History of Economic Crises**—A comparative study of economic, industrial and financial crises from the seventeenth century to the present day. Especial attention given to the recent world crises. The work covers the local and minor crises preliminary to the main crisis, and the transmission of the crisis from country to country; the fluctuation in investment, bank items, and prices in the principal countries; the action and reaction between industrial activity and financial business. Supplementary readings on the theory of crises. Three hours attendance. Three hours credit. First semester. England

21. **Stock and Produce Exchanges**—Boards of Trade: A description of the nature of the business carried on in the Paris Bourse, the Stock Exchange of London, the New York Stock Exchange, the New York Produce Exchange, the New York Coffee Exchange, the Cotton exchanges of New Orleans, Liverpool, and New York, and the Chicago Board of Trade. Options and futures, puts, calls and straddles. Corners in stocks, wheat, and cotton. Biographical sketches of prominent operators. Three hours attendance. Three hours credit. First semester. England

[23. **Municipal Industries**—A study of the principles and methods involved in the construction and operation of municipal public utilities; growth and importance of these industries in the United States and in foreign countries; direct versus contract method of construction and repairs; municipal ownership versus regulated private ownership of the leading public service utilities. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Stephens]

24. **Railway Transportation**—This course includes a brief survey of the evolution of transportation; its relation to economic and social life; problems of railway competition and how they have been met; financial methods of railway companies; railway accounts; principles of rate making; state and federal legislation; public control through state and federal

commissions; government ownership and its results. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. Second semester. Virtue

25. Corporation Finance and Investments—This course includes an introductory study of the historical development of corporations; the advantages and disadvantages of large scale production; the various forms of combination, such as pools, trusts and holding companies; followed by a detailed study of the methods of promoting and capitalizing larger combinations, and various other important problems involved in their financing. Special emphasis is given to the discussion of the merits and demerits of the stocks and bonds of industrial, public service and railway corporations as investments, and the stock market methods underlying their purchase and sale. Two hours attendance. Two hours credit. First semester. Stephens

26. Trust Problems—The rise and development of trust forms of business organization; the conditions essential to the operation and growth of trusts; the elements of large-scale production and monopoly entering into the formation of trusts; dangers arising from their unrestricted operation; remedies, including governmental interference; Federal and state anti-trust laws and decisions. Two hours attendance. Two hours credit. Second semester. Stephens

28. Statistics and Prices—A study of the theory, preparation, interpretation, and application of economic statistics with especial reference to prices; determination of the rise and fall of general prices; comparison of the movement of prices of raw materials and finished products; prices in relation to wages and interest; price cycles; stock prices and profits. (Students desiring further work in statistics are advised to take Mathematics 31.) Three hours attendance. Three hours credit. Second semester. England

31. Public Finance—This course embraces a study of the objects and growth of public expenditures of the leading nations; sources of revenue from government industries and from taxation; the chief features of various tax systems, especially of the United States and England; the principles upon which different forms of taxes rest and their industrial effects; systems of financial administration, especially the methods of managing the budget; public debts, their forms and methods of management. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. First semester. Virtue

32. State and Local Taxation—A seminary course with special reference to conditions, past and present, in Nebraska. A comparative study is made of the tax laws of various states, methods of administration and current movements for tax reform. Open to those who have had course 31, or its equivalent. Three hours credit. Second semester. Given in Summer Session, 1913.

Virtue

33. Seminar on Nebraska History, Politics, and Economics—Combined research seminar of the departments of American History, Political Science and Sociology, and Political Economy. Special assignments may be made upon any phase of Nebraska's development if desired and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. Students may register in any one of the three departments. First semester.

Caldwell, Le Rossignol, Virtue, Persinger, Sheldon

34. Seminar on Nebraska History, Politics, and Economics—Continuation of 33. Second semester.

35. Work and Wages—History of the labor movement in Europe and America; wages in the 19th century; theory of wages; methods of remuneration; the minimum wage; hours and conditions of labor; migration; conflicts of capital and labor; conciliation and arbitration; employers' liability; insurance and pensions; workingmen in politics; relation of Socialism to the labor movement. (Students desiring further work in labor problems are advised to take Political Economy 36, 37 and 39 and Political Science 19 and 20.) Three hours attendance. Three hours credit. First semester.

Le Rossignol

36. Methods of Industrial Peace—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organizations of employers and laborers; their aims and methods; interests of the general public; gains and losses through strikes; trade agreements; conciliation; voluntary and compulsory arbitration; co-operation; profit sharing; political activities of workingmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester.

Le Rossignol

[37. Socialism]—History of socialistic thought before the French Revolution; Utopias of Plato, Moore, Campanella; relation of the French Revolution to modern Socialism; Utopian theories of Owen, Saint-Simon, Fourier; communistic experiments in Europe and America; Proudhon, Blau-

and other French socialists; Marx, Engels, Lassalle and other German socialists; growth of Socialism throughout the world; Socialism in the United States; Syndicalism; recent socialistic theory and criticism. Three hours attendance. Three hours credit. First semester. *Given in 1914-1915 and alternate years.* Le Rossignol]

[39. **Industrial Efficiency**—Historical treatment of the subject from the period of the Industrial Revolution to the present. A critical study of the fundamental factors involved. First, efficiency due to the personal equation of the manual laborer, the salesman, and the manager; the employer's exploitation of the efficient employee; extent to which personal efficiency will result in social benefit. Recent proposals. Second, efficiency due to the capital element in production; the maximum flow of value from the use of land, raw materials, industrial plants, and labor-saving machinery; the capitalists' exploitation of capital and to what extent socially detrimental. Third, efficiency due to organization; forms of organization; direct and joint-stock ownership; competitive, monopolistic and co-operative methods. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Stephens]

[42. **Economic Reforms**—Seminary on voluntary and compulsory efforts for the improvement of economic conditions; activities of trade unions and fraternal societies; co-operation; profit-sharing; settlement of industrial disputes by conciliation and arbitration; the single tax and other proposed reforms in taxation; governmental control and ownership of railways; monetary and banking reform; compulsory insurance; old age pensions. Each student will be expected to make a somewhat intensive study of some one subject and the class as a whole will study particularly state activities in Australia and New Zealand. Three hours attendance. Three hours credit. First semester. *Given in 1914-1915 and alternate years.* Le Rossignol]

POLITICAL SCIENCE AND SOCIOLOGY

Head Professor Howard, Professor Webster, *Associate Professor Eaves, Associate Professor Aylsworth, Lecturer Sheldon

UNDERGRADUATE WORK

Courses 1 and 2 are open to all students except freshmen, and are recommended to those intending to teach civil government, or American history, in the schools, being especially adapted in method and matter to their needs.

Teachers' Certificate—Candidates for this certificate may elect the re-

* Leave of absence.

quired special work in this department in conjunction with allied subjects. The following courses are suggested: Major—Courses 1, 2, 21, 15, 16, 31; Minor—Courses 1, 2, 21, 15, 35. Other courses may perhaps be more valuable for particular students. Individual conferences are suggested.

Vocational Training—By co-operation with other departments, the department of Political Science and Sociology is able to offer vocational preparation for work in Public Administration, Civil Service, and Social Service. Groups of courses have been prepared conforming to the general requirements of the College of Arts and Sciences, and at the same time affording specialization along the above lines during sophomore to senior years. Students wishing to take advantage of this vocational grouping should elect their Arts and Sciences major in the department of Political Science and Sociology, and on first consultation with the departmental "adviser" should indicate which one of the above vocational lines is intended to be followed.

REQUIREMENTS AND FACILITIES FOR GRADUATE WORK

The minimum requirement for the degree of Master of Arts is one full year's work or the equivalent of about thirty class-hours, including a thesis. A candidate may devote his entire time to the work of the department; or he may divide it between a major and a minor. A minor is the equivalent of nine class-hours. The selection of courses is influenced by the character of the thesis.

The minimum requirement for the degree of Doctor of Philosophy is three full years' work, of which about three-fifths, or the equivalent of about sixty class-hours, must be given to the major subject. The remaining two-fifths of the time, or the equivalent of about forty class-hours, must be devoted to a first minor or divided equally between two second minors. The particular courses in the major subject are selected with regard to the character of the thesis and with reference to the candidate's aim and preparation. The thesis must be the result of the sustained investigation of the original materials. Without undergraduate training in thesis-writing or research courses, it is difficult to take either the master's or the doctor's degree in the minimum period. Preferably minors may be selected in the departments of economics, history, or public law; but minors will be accepted in education, philosophy, or other departments, according to the needs of the candidate. In all cases a good knowledge of economics and history is required.

The facilities available for graduate study and research in both political science and sociology are excellent. The libraries of the University, city,

state, and the State Historical Society afford the student access to an aggregate of about 286,500 volumes. The University Library contains the standard authorities and reference works on institutional history, social science, anthropology, ethnology, Roman law, historical jurisprudence, political economy, philosophy, government, politics, administration and statistics. It is especially strong in public documents and other material, source and secondary, for the investigation of problems in American government and administration. The State Library of 80,000 volumes supplements those of the University and the College of Law. It is one of the best law libraries in the West—rich in materials for a comparative study of government and legislation in the different states. In the Historical Society's collections and the public archives at the state Capitol there is accessible a mine of source material for investigating state and local government and administration in Nebraska. When these resources prove inadequate in special investigations, desired books will be purchased or temporarily borrowed from other libraries.

The location of the University at the state capital gives special opportunities for personal observation and study of the actual problems and practical workings of state and municipal legislation and administration.

The Nebraska Legislative and Municipal Reference Bureau is now by act of the Nebraska legislature of 1911 affiliated with this department. Its library of several thousand books, pamphlets and clippings is on the campus and students are invited to make large use thereof. Several scholarships in research work for this bureau, worth from \$25 upwards, are open for capable students. University credit will be given for approved work under these scholarships.

Many valuable allied courses in economics, history, jurisprudence, and law are to be had in other departments.

COURSES PRIMARILY FOR UNDERGRADUATES

1. American National Government—Introductory study of salient features in historical development, political structure, and actual workings of national, state, and local governments as parts of one whole. National government, first semester. Open to all students except freshmen. Three hours attendance. Three hours credit. First semester. Aylsworth

2. American State Government—Complement of course 1. May be taken before course 1 by consent of instructor. State and local government in general is studied. Nebraska is used as an example of both federal and state relations, and state and local government. Open to all students

except freshmen. Three hours attendance. Three hours credit. Second semester. Given in Summer Session, 1913.

Aylsworth

3. **Biography of Statesmanship**—From Roger Williams to Abraham Lincoln; character and deeds of twenty state-builders in America. Role of great men in social progress. Personality in social achievement. Open to all students except freshmen. Two hours attendance. Two hours credit. First semester.

Howard

4. **Biography of Statesmanship**—3 continued. New registrations accepted. Second semester.

5. **Social Origins**—A study of the early life of mankind as revealed in monuments and remains, customs, institutions, and beliefs. A detailed treatment will be made of such subjects as the origin and growth of language, beginnings of writing, genesis and development of the arts of life, primitive science and education, matrimonial institutions, origins of government and the state, rise of property and monetary systems, early religion, magic, and mythology, early law and morality. Thomas' *Source Book for Social Origins*, Tylor's *Anthropology*, and Marett's *Anthropology* are used as texts. Lectures accompanied by reference syllabus and illustrated with lantern slides. Three hours attendance. Three hours credit. First semester.

Webster

6. **Social Origins**—5 continued. Second semester.

7. **Modern Social Betterment Movements**—Social settlements; welfare work of large employers; efforts to protect the health of the public; housing problems; public parks, playgrounds and recreation centers; and other forms of modern social betterment activities will be studied. Open to all students except freshmen. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1913.

Eaves

8. **Poverty and Dependence**—This course includes a general discussion of the causes of poverty and dependence and the principles of prevention and relief, with a more concrete study of modern methods of caring for the poor. State institutions for the care of dependents, the methods of work of charitable and religious societies, and emergency relief in times of great calamities will be among the subjects considered. Open to all students except freshmen. Three hours attendance. Three hours credit. Second semester.

Eaves

9. **Nebraska History and Political Institutions**—Aboriginal inhabitants, their life, lands, customs and remains. Spanish, French and American exploration. Early trade, travel and settlement. Territorial organization,

laws, and institutions. Statehood. The making of Nebraska Constitutions. Immigration, railroad building, industrial growth. The economic and political revolution. Religion, education and social life. Present problems and the New Nebraska. Bibliography of documentary and other sources of Nebraska history. Lantern slide views of historic scenes and persons. Open only to juniors and seniors; others by special arrangement. Three hours attendance. Three hours credit. First semester. *Given in 1913-1914.*
Sheldon

10. **Nebraska History and Political Institutions**—9 continued. Second semester.

FOR UNDERGRADUATES AND GRADUATES

11. **Municipal Government**—Organization of City Government in the United States and Europe. Growth of cities, the "home rule" movement, municipal suffrage, initiative and referendum, the council and executive, the municipal administrative system, the commission plan of city government, and the "short ballot." Prerequisite: Courses 1 and 2 or their equivalent. Two hours attendance. Two hours credit. First semester.

Aylsworth

12. **Municipal Government**—Functions of city administration in the United States and Europe. Origin and expansion of municipal functions, tendency toward municipal socialism, activities and problems connected with public health and safety, charities, education, recreation, public works, transportation, the "city beautiful," municipal ownership of public utilities, etc. Occasional stereopticon views. Prerequisite: Courses 1 and 2 or equivalent. Two hours attendance. Two hours credit. Second semester.

Aylsworth

[13. **English Government and Politics**—A study of the British political system in comparison with our own. Growth of the English constitution; the cabinet-parliamentary organization of government, judicial system and procedure, legislative and administrative methods, the colonial system, political parties and party methods, present day issues of constitutional reform, and of financial, educational, and social economic legislation. Prerequisite: Courses 1 and 2 or their equivalent. Three hours attendance. Three hours credit. Second semester. *Given in 1914-1915.* Aylsworth]

15. **General Sociology**—Principles of social science. For third and fourth year students and graduates. Three hours attendance. Three hours credit. First semester.

Howard

16. **Problems in Social Psychology and Ethics**—Chief psychic factors in social evolution. Laws of suggestion, mob-mind, and imitation; "craze," "fad," and sect; fashion, conventionality, custom, and tradition; leader-

ship, genius, hero-worship, role of great men; social conflict, compromise, discussion, free speech, free press, public opinion; social sins, standards of private and social ethics. Theories of Le Bon, Tarde, Sidis, Ward, and Ross. For third year and more advanced students. Three hours attendance. Three hours credit. Second semester. Howard

17. **Primitive Religion**—An anthropological and sociological investigation of the evolution of religious beliefs and rites. Development of the ideas of spirits and gods; polytheism, dualism, and monotheism. Systems of religious belief: fetishism and idolatry; worship of natural objects, animals and plants; ancestor-worship. Magic in its connections with religion; demonology and devil-lore; notions of the soul and of the future life; origin and growth of religious ceremonies, priesthoods, and mythologies; sacrifice and prayer. Such topics as the classification of religions, connections between religion and morality, sociological factors in the development of religion, present trend of religious progress, etc., receive attention. Reinach's *Orpheus* and Toy's *Introduction to the History of Religions* are used as texts. Lectures accompanied by a detailed reference syllabus. Three hours attendance. Three hours credit. First semester. Webster

18. **Primitive Religion**—17 continued. Second semester.

19. **Labor Legislation**—The development of legislation for the regulation and protection of wage-workers in countries other than the United States. Particular attention will be given to the English labor laws and decisions. Students desiring further work in labor problems take Political Economy 35, 36, 37, and 39. Two hours attendance. Two hours credit. First semester. Eaves

20. **Labor Legislation**—The labor laws and decisions of the United States, with a more detailed study of the development of this legislation in Nebraska. Two hours attendance. Two hours credit. Second semester. Eaves

21. **Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester. Eaves

22. **Criminal Sociology**—Elements of criminology and penology. Par-

ticular attention will be given to modern methods of reform as expressed in the juvenile court, reform school, parole, the indeterminate sentence, and better forms of prison management. Open to third year and more advanced students. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1913. Eaves

25. Present Political and Social Questions—A discussion of some of the more important problems arising in American national, state and urban life. Lectures with readings on an analytical reference syllabus. Open to third year and more advanced students. Three hours attendance. Three hours credit. First semester. Howard

26. The Family—A study of marriage, divorce, the home, sex-hygiene, child-saving, protection of motherhood, eugenics, education for parenthood and the family-life, and related questions. Lectures with readings on an analytical reference syllabus. Open to third year and more advanced students. Three hours attendance. Three hours credit. Second semester. Howard

29. Government of Nebraska—A study of the organization and administration of state and local government; political and constitutional development; the legislature and legislation; the judicial system and judicial administration; the governor and administrative system; institutional administration; local, county, and municipal government. Open to juniors, seniors and students having taken courses 1 and 2. May be made a three hour course. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1913. Aylsworth

30. Judicial Administration—A study of our American judiciary, the system of courts, federal and state, their organization and jurisdiction, unique position in the political system, movements to curb power and increase the responsibility of the judiciary, methods of procedure, civil and criminal, the jury system, defects and suggested reforms in judicial organization and administration. Open to juniors, seniors and students having taken courses 1 and 2. May be made a three hour course. Two hours attendance. Two hours credit. Second semester. Aylsworth

[31. Party Government]—Organization and working of political parties in the United States. Growth of party system; caucus and convention; direct primary; the party committee, "machine," and "boss"; legal control and responsibility of parties; campaign funds; origin and influence of third parties; relation of proportional representation and the initiative and referendum to party government; party control of legislation and

administration. May be made a three hour course. Open to juniors, seniors and students having taken courses 1 and 2. Two hours attendance. Two hour credit. First semester. *Given in 1914-1915.* Aylsworth]

[32. **State and Local Administration**—A study of administrative organization and activities in the different states; the governor and other state administrative officers; administrative significance of the short ballot, the departments of education, health, insurance, public lands, etc.; growth and influence of state boards and commissions; state civil service reform; centralization in state administration; state control of county, township, and municipal administration. Open to juniors, seniors and to students having taken courses 1 and 2. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915.* Aylsworth]

[33. **Practical Legislation: Nebraska Problems**—Introductory study of Nebraska's historical development, social, political, constitutional. Present problems in Nebraska law-making and administration. Subject-matter and methods of legislation. Drafting and criticism of legislative bills and information briefs in co-operation with Nebraska Legislative Reference Department. Practice work at state house during legislative session, January to April of odd numbered years. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915.* Credited in the College of Law. Sheldon]

[34. **Practical Legislation: Nebraska Problems**—33 continued. Second semester.]

33a. **Seminar on Nebraska History, Politics and Economics**—Combined research seminar of the departments of American History, Political Science and Sociology, and Political Economy. General subject for 1913-1914 will be the earlier periods of Nebraska; special assignments may be made upon any phase of Nebraska's development if desirable and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in either of the three departments. Given every year. First semester. Caldwell, Le Rossignol, Virtue, Persinger, Sheldon

34a. **Seminar on Nebraska History, Politics and Economics**—33a continued. Second semester.

35. **Folk-lore**—An examination of those phases of thought and action, which, inherited from prehistoric savagery, still abide among peoples of advanced culture. After preliminary lectures on the study and classification of folk-lore the subject is discussed under the following heads: 1.

Folk-faith: the folk-lore of animism, magic and myth. 2. Folk-literature; folk-tales, their diffusion and interpretation, systems of folk-tales, popular epics and romances, notably those of Celtic and Teutonic peoples; folk-songs, folk-plays and folk-sayings, including proverbs, riddles, rhymes, and fables. 3. Folk-custom: popular festivals, ceremonies, games and sports, symbols and superstitions. These topics are studied with special reference to their relation to the beginnings of religion, law, and morality. Lectures and reports. This course should prove of special importance to teachers and to others interested in the study of childhood. Two hours attendance. Two hours credit. First semester. Webster

36. **Folk-lore**—35 continued. Second semester.

37. **Principles of Political Science**—The scope and methods of political science, the nature and origin of the state, forms of state and government, sovereignty, functions of the state, citizenship and nationality, modern principles of representation, suffrage, and governmental organization. Open to juniors, seniors and graduates. Three hours attendance. Three hours credit. First semester. Aylsworth

38. **History of Political Thought**—The development of political theory from Aristotle to the present time in its relationship to political history. Open to juniors, seniors and graduates. Three hours attendance. Three hours credit. Second semester. Aylsworth

39. **Investigation of Social Problems**—This course aims to give training in the investigations of social problems and in the preparation for public use of the information gained. It is intended primarily for those who wish to prepare themselves for positions in connection with the social work of religious societies or of charitable or correctional institutions. Students who are already engaged in some form of social betterment activity and desire to make special studies connected with their work will be directed in the investigation of subjects of their own choice. The other members of the class will join in a co-operative study of the main topic selected for each semester's work. It is expected that participation in this intensive study will enable the students to become acquainted with the methods of collecting, organizing, interpreting, and presenting in good literary form the facts throwing light on selected problems connected with the social welfare of the state. Primarily for graduate students. Two hours credit. First semester. Given in Summer Session, 1913. Eaves

40. **Investigation of Social Problems**—39 continued. Second semester.

[43. **Statistics**—Principles and methods of statistical science. Exercises

in the investigation of social and demographic problems. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.*

Eaves]

PRIMARILY FOR GRADUATES

[49. **Seminar on American Politics and Government**—A study of some of the more important problems in present day political and social life. Primarily for graduates. One two-hour (evening) session each week. Two hours credit. First semester. *Given in 1914-1915.*

Howard, Aylsworth]

[48. **Seminar on American Politics and Government**—47 continued. Second semester.]

49. **Seminar on Municipal Problems**—American and foreign municipal conditions compared; forces determining location, growth, structure, and economic basis of cities; comparison of urban and rural conditions with respect to sociological factors; aspects of bad government; public ownership; "city beautiful," model "municipal program." For graduates and advanced undergraduates. One two-hour (evening) session each week. Two hours credit. First semester. *Given in 1913-1914 and alternate years*

Howard, Aylsworth

50. **Seminar on the Family**—Mother-right, father-right, polygyny, polyandry, wife-capture, wife-purchase, theories as to genesis of matrimonial institutions; divorce, marriage, birth-rate, "race-suicide"; legislation and sex-education in the reform movement; intellectual and industrial liberation of woman; co-education; problems of marriage, the home, and the family. Primarily for graduates. By consent a limited number of other specially qualified students may be admitted. One two-hour (evening) session each week. Two hours credit. Second semester. *Given in 1913-1914 and alternate years.*

Howard, Aylsworth

53. **Round Table in Early Society**—The study and informal discussion of one or more standard treatises in the field of social anthropology, such as Tylor's *Primitive Culture*, Westermarck's *Origin and Development of the Moral Ideas*, Spencer's *Principles of Sociology*, and Frazer's *Golden Bough*. Some attention is paid in this course to methods of anthropological research. One hour a week. One hour credit. First semester. Webster

54. **Round Table in Early Society**—53 continued. Second semester.

RHETORIC

Head Professor Frye, Professor Fogg, Professor Buck, Assistant Professor Gass, Adjunct Professor Howell, Adjunct Professor McPhee, Mr. Davis

GENERAL INFORMATION

It is the aim of the Department to further a systematic understanding of the principles of English composition and to cultivate correct habits of speaking and writing the English language. To this end all courses insist upon constant exercise in expression and upon frequent consultations with the instructors in addition to the regular class-room discussions and recitations. At the same time emphasis is laid, as far as possible, upon outside reading and study in illustration of the methods, and in preparation of the materials, of rhetorical practice.

ELECTION OF COURSES

Before the student proceeds to elective work, he must have completed courses 1 and 2 as a prerequisite. A student electing advanced work in rhetoric will find it advantageous to carry courses in English literature in connection, if he is not doing so already. Students intending to elect work in debate should take courses 13 and 14 in their sophomore year. Such students are also recommended to acquaint themselves with those subjects from which questions for debate are usually drawn—American history, European history, jurisprudence and public law, philosophy, political economy and commerce, and political science and sociology.

UNIVERSITY TEACHERS' CERTIFICATE

Because of the need of preparation in both Rhetoric and English Literature, for certificated teachers, no majors or minors are offered or accepted in either subject singly. A combined major or a combined minor is provided for such as are preparing to teach English in secondary grades. The combined major embraces courses 3, 4, 7, 8 in Rhetoric and courses 1, 2, 11, 12 in Literature. The combined minor includes course 7 in Rhetoric and course 1 in Literature. But with each major or minor, courses 17, 18 in English Literature must be taken as fundamental in either subject.

Candidates who intend to teach debate may make arrangements to substitute courses 13 and 14 for 7 and 8. Candidates should notify the department of their candidacy by the beginning of their sophomore year.

GRADUATE WORK

The department offers two lines of graduate work—Composition: On

application students may arrange for rhetorical work in connection with English Literature leading to the Master's degree; Criticism: Students may also arrange for critical work in two or more languages, leading to the Master's or Doctor's degree.

COURSES PRIMARILY FOR UNDERGRADUATES

REQUIRED

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1913. Frye, Buck, Gass, McPhee, Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters. Given in Summer Session, 1913.

Courses 1 and 2 are required of all freshmen in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering.

5. **English Composition**—Expository writing and kindred forms of expression: Three hours attendance. Three hours credit. First semester. Frye, McPhee

6. **English Composition**—5 continued. Second semester.

Courses 5 and 6 are required of all sophomores in the College of Agriculture and may be elected, in place of 3 and 4, by students wishing an additional hour's work.

ELECTIVE

3. **English Composition**—1, 2 continued. Practice in general expression. Intended to give the student some control over his own thought and some facility in its presentation. Two hours attendance. Two hours credit. First semester. Frye, McPhee

4. **English Composition**—3 continued. Second semester.

23. **Newspaper Writing**—News-story and editorial writing. Two hours attendance. Two hours credit. First semester. Gass

24. **Magazine Writing**—23 continued. Magazine exposition. Second semester.

25. **Narration**—Practical course in prose narrative writing. Admission by consent of instructor. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1913. Buck

26. **Narration**—25 continued with special attention to the short story. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

7. English Composition—Advanced course. Theory of English composition. Studies in the organization of literary material. Daily and fortnightly themes. Two hours attendance. Three hours credit. First semester. Frye

8. English Composition—7 continued. Critical studies in style and structure. Readings and reports to illustrate the principles of English prose literature. Daily and fortnightly themes. Two hours attendance. Three hours credit. Second semester. Frye

9. Writers' Course—Intended for advanced students who wish to improve their writing in connection with some particular subject of study or inquiry. No classes; themes, criticism and conferences. The student is expected to propose a subject, to prepare a theme, and to submit it to the instructor for criticism and advice with a view to revision and improvement. Two hours credit. First semester. Frye

10. Writers' Course—9 continued. Second semester.

11. The History of Rhetoric—A reading course in the history of rhetorical theory. Two hours attendance. Two hours credit. First semester. Gass

13. Argumentation—1, 2 continued. Principles of argumentative composition. Text-book, lectures frequent writing, conferences; gathering of material; analysis; evidence; structure—brief-drawing; ethics of discussion. Briefs and arguments on questions of general or college interest or from the student's work in other departments. In the second semester a thesis, for which the training in the first semester directly prepares, may be substituted. Two hours attendance. Three hours credit. First semester.

Fogg and Assistants

14. Argumentation—13 continued. Second semester.

15. Debate—Introductory course. Principles of argumentation practically applied to oral discussion of economic, ethical, historical, political, and sociological questions. Weekly debates, preceded by briefs, in which each member takes part three times as principal speaker. The debates are criticised before the entire class. Open to students who have completed course 13 with credit and to others by special consent. Membership limited to twenty. Two consecutive hours attendance. Three hours credit. First semester. Fogg, Caldwell, Fling, Howard, Le Rossignol

16. Debate—15 continued. Open to students who have completed 13 or 15 and to others by consent of the instructor. Second semester.

17. **Debate**—Advanced course. Further training in investigation and oral discussion. Debates. Each member takes part three times as principal speaker. Conducted as course 15. Open to students who have completed 13 and 15 or 16 and to others by consent of the instructor. Membership limited to sixteen. Admission by consent of instructor. Two consecutive hours attendance. Three hours credit. First semester.

Fogg, Caldwell, Fling, Howard, Le Rossignol

18. **Debate**—17 continued. Second semester.

19. **Public Address (Exclusive of Debate)**—Practical training in the composition of the public address not strictly argumentative. Practice in writing for definite audiences, the occasional address. Emphasis on persuasion and literary form, supplementing the course in argumentation and debate. Burke, Erskine, Webster, Lincoln, Phillips, Beecher, Curtis, and contemporary public speakers. Readings; conferences. To have taken or to be taking course 13 is advantageous. Two or three hours attendance. Three hours credit. First semester.

Fogg

20. **Public Address (Exclusive of Debate)**—19 continued. Second semester.

22. **Debate**—Second advance course. Training of a more systematic kind. Original research. Open only to those students who have attained some excellence in argumentation and debate. Membership limited to twenty. Attendance to be arranged. Credit varies with the work done. First semester.

Fogg

29. **The Nineteenth Century Essay**—Principles of English composition as illustrated by selected works of masters of modern English prose—Jeffrey, Hazlitt, Macaulay, Lamb, De Quincy, Carlyle, Ruskin, Arnold, Newman, and Stevenson. Frequent themes; personal criticism. Prerequisite: Courses 1, 2. Two hours attendance. Two hours credit. First semester.

Fogg

30. **The Nineteenth Century Essay**—29 continued. Second semester.

32. **The Teaching of Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to Juniors, Seniors, and graduates. One hour lecture; three hours reading and observation. Two hours credit. Second semester.

Frye, Fogg

33. **Comparative Criticism**—A comparative study of the leading so

cial ideas in the works of representative writers in France, Germany, and England during the latter eighteenth and early nineteenth century. Frequent reports and conferences. Intended to give the student some notion of the social ideas in literature as a foundation for its critical appreciation. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours lectures. Two hours credit. Given in Summer Session, 1913. Buck

34. Comparative Criticism—A comparative study of the drama—Greek, Spanish, French, and English. Mainly a reading course, controlled by reports, critiques, and lectures. Intended to give the students some sort of foundation for the critical appreciation of literature. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours attendance. Three hours credit. Frye

41. Public Speaking—Intended especially for students who wish to prepare themselves for public speaking—debate and other forms of public address. Its object is to assist the student in acquiring an effective oral style—clear, direct, simple. Text-book, individual drill. Special attention to voice and gesture. Practice in various forms of extemporaneous speaking. Critical work in the delivery of one original oration each semester. Membership limited to fifteen. Admission by consent of the instructor. Three hours attendance. Two hours credit. First semester. Howell, Davis

42. Public Speaking—41 continued. Second semester.

ROMAN HISTORY AND LITERATURE

Head Professor Barber, Assistant Professor Sanford, Adjunct Professor Hunter, Miss Graham

The instruction aims to impart an understanding of the principles of the language through a study of its development and wide reading in the literature. The intention is to lead the student to build up his grammatical knowledge and to master the laws of the language from his own reading.

The instruction is not confined to linguistic and literary lines solely. The character and institutions of the Roman people are also studied with the view of leading students to an understanding of ancient Roman civilization and its bearing on modern life.

The required courses for the University Teachers' Certificate in Latin as a major are, 1, 2, 3, 4, 5, 6, 7 and 8. Equivalent work in the department may be substituted for 5 and 6 upon consultation with the head. The courses required for a minor are 1, 2, 3 and additional work assigned by

the head of the department. The above courses must be preceded by the four years high school preparation, including composition (one period per week during the second and third years) and a thorough drill in the grammar. Students found to be defective in preparation may be required to take courses E and F in addition to the above.

In connection with this department is maintained a Latin Club of advanced students elected on the basis of scholarship and interest in the subject. Monthly meetings are held devoted to the reading of papers, choice passages of Roman literature, discussions, and Latin conversation. Eighty per cent of the dues are set aside for the purchase of some permanent memorial for the department.

MASTER OF ARTS

Candidates for advanced degrees must have completed courses 1, 2, 3, and 4, or their equivalents. Graduate study should include courses 5, 6, 11, and 12, after which subjects may be selected from any courses open to graduates. The basis of requirement is as follows:

Second Minor: Three hours of class-room work for one year.

First Minor: Six hours of class-room work for one year.

Major: Six hours of class-room work and the equivalent of four hours in the preparation of a thesis.

Complete Course: Nine hours of class-room work and the equivalent of six hours in the preparation of a thesis.

Theses may be prepared on any of the following subjects: the satirists, the Roman drama, Roman history, Roman oratory, elegiac poetry, poetry of the empire, prose of the republic, prose of the empire, sermo plebeius, patristic literature. By special arrangement a thesis may be prepared on some question of syntax covering the whole literature.

COURSES FOR UNDERGRADUATES

To enter course A the student must have had four books of Caesar with Latin composition. To enter course 1 the student must have completed courses A, B, C, and D.

Courses A and B give the student two preparatory credit "points" or six hours of college credit. Courses C and D two preparatory credit "points" and two hours of college credit, or ten hours of college credit.

A. **Cicero**—Three orations; Latin composition, drill in syntax. In written exercises the long vowels are marked. Three hours attendance. Three hours credit. First semester.

Graham

B. **Cicero**—A continued. Second semester.

C. **Vergil**—Three books of the *Aeneid*. Drill in prosody, case and verb construction, and poetic expressions. Five hours attendance. Five hours credit. First semester. Hunter

D. **Vergil**—Three books of the *Aeneid*. Ovid's *Metamorphoses*. Two books. Drill as in C. Metrical reading of hexameters at sight. Practical examination of tense uses. Literary art of Vergil. Five hours attendance. Five hours credit. Second semester. Hunter

E. **Practical Course in Latin Syntax**—Practical drill in the principles of Latin syntax, preparatory to rapid and accurate reading. Two hours attendance. Two hours credit. Hunter

F. **Practical Course in Latin Syntax**—E continued. Special practice in translating long paragraphs of connected discourse.

1. **Cicero**—*De Senectute* with Latin composition. Drill in the syntax of moods and tenses; special attention to the classification of subordinate clauses. Livy begun. Five hours attendance. Five hours credit. First semester. Barber, Hunter

2. **Livy**—Books XXI and XXII. Practice in sight reading. Study of moods and tenses and subordinate clauses continued. Five hours attendance. Five hours credit. Second semester. Barber, Hunter

3. **Horace**—Selected Odes, Epodes, Satires, Epistles and *Ars Poetica*. A few passages memorized; occasional summaries; a brief view of social life in Horace's time; prosody. Four hours attendance. Four hours credit. First semester. Sanford

4. **Plautus and Terence**—*Captivi* and *Adelphoe*. A brief introduction to Roman drama; prosody. Tacitus' *Agricola* and *Germania*. The *Germania* studied for its bearing on the customs and laws of modern German peoples. Four hours attendance. Four hours credit. Second semester. Sanford

43. **Teachers' Course**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester. Graham

44. **Teachers' Course**—43 continued. Second semester.

49. **Roman Oratory**—General survey of the development of Roman oratory from the earliest period. Detailed study of the structure of speeches, methods of delivery, and effectiveness. Types of oratory em-

ployed at funerals, before armies, in the senate and forum. Lectures and reports. Two hours attendance. Two hours credit. First semester.

Hunter

50. Roman Oratory—49 continued. Special reference to oratory in the last days of the republic. Second semester.

51. Scientific Latin—A practical course in the word formation, vocabulary, phrases and continuous passages in scientific Latin. Especially adapted to students in medicine and the natural sciences. Two hours attendance. Two hours credit. First semester.

Hunter

52. Scientific Latin—51 continued. Preparation of special material by students in the lines with which they are most concerned. Two hours attendance. Two hours credit. Second semester.

Hunter

COURSES FOR UNDERGRADUATES AND GRADUATES

5. Suetonius—Lives of Julius and Augustus Caesar. Sight reading. Talks upon Roman life. Papers by the class. Two hours attendance. Two hours credit. First semester.

Barber

6. Pliny and Juvenal—Selected letters. Selected satires. Reading from hearing. Collateral readings on Roman social life. Two hours attendance. Two hours credit. Second semester.

Barber

7. Roman Archeology—Following are some of the subjects treated: Amphitheatres, aqueducts, arches, architecture, basilicas, bath houses, building materials, catacombs, circi, columns, fortifications, fora, methods of building, roads, ruins, sewers, temples, theatres, topography, walls, war implements. Lectures illustrated with lantern slides. Papers are required of students on special topics. One hour attendance. One hour credit. First semester.

Barber

8. Roman Antiquities—Public and private life of the Romans; dress and ornaments, household furniture, kitchen utensils, museums, manuscripts, pottery and vases, private houses, public buildings, sculpture, Vesuvius, Pompeii and Herculaneum, wall decorations. Lectures illustrated with lantern slides. Papers as in course 7. One hour attendance. One hour credit. Second semester.

Barber

9. Cicero's Letters—Selections arranged to throw light upon life and time of Cicero. Lectures on the style of the letters. Two hours attendance. Two hours credit. First semester.

Sanford

10. Quintillian—Book X and selections from Book XII. Books I and II assigned for collateral reading as showing the educational methods in the first century A. D. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.*

Sanford]

11. **Composition**—A brief, illustrated review of the syntax of noun and verb, followed by practice in connected Latin writing. One hour attendance. One hour credit. First semester. Sanford

12. **Composition**—11 continued. Second semester.

13. **Latin Grammar**—An elementary course in historical development of Latin moods. Tenses. Pronunciation. Lectures. One hour attendance. One hour credit. First semester. Barber

14. **Latin Grammar**—13 continued. Second semester.

[15. **Plautus and Terence**—Course in rapid reading of seven or eight plays. Lectures on history of Roman drama. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Sanford]

16. **Cicero**—Tusculan Disputations, Book I, studied with reference to Roman ideals concerning immortality. Selections from Lucretius, Seneca, and Buecheler's *Carmina Latina Epigraphica*. Two hours attendance. Two hours credit. Second semester. Sanford

17. **Roman History**—From the earliest times through the early empire. Primarily for those preparing to teach Latin in secondary schools—Open to juniors and seniors only. Text-book. Lectures. Two hours attendance. Two hours credit. First semester. Sanford

18. **History of Roman Literature**—Lectures, with selections from representative authors. Open to juniors and seniors only. Two hours attendance. Two hours credit. Second semester. Sanford

21. **Latin Morphology**—Latin in its relation to the other languages of the Aryan group. Sounds and their combinations, accent, and principles of word formation and derivation. Survey of the laws of linguistic growth and change as illustrated in Latin. Lectures and readings. One hour attendance. One hour credit. First semester. Hunter

22. **Latin Morphology**—21 continued with historical study of the development of Latin. Second semester.

[27. **Vergil**—Selections from the *Eclogues*, *Georgics*, and Books VII-XII of the *Aeneid*, rapid reading course, of particular interest to prospective teachers of Latin. Special topics assigned for investigation by members of the class. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Sanford]

[28. **Ovid**—Selections from the *Heroides*, *Amores*, *Fasti*, *Metamorphoses*, and *Tristia*, a companion course to 27. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Sanford]

29. **Tacitus**—Selections from the Annals and Histories, treated as a basis for the history of the Empire from 14 to 70 A. D. Two hours attendance. Two hours credit. First semester. Sanford

30. **Martial**—Selected Epigrams, in illustration of Roman life under the early Empire. Two hours attendance. Two hours credit. Second semester. Sanford

[31. **The Elegiac Poets**—Selections from Catullus and Tibullus. Lectures on the history of Roman elegiac poetry. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Sanford]

[32. **The Elegiac Poets**—Selections from Propertius and Ovid. 31 continued. Second semester. *Not given in 1913-1914.*]

[33. **Cena Trimalchionis**—This social novel studied with reference to Romance languages, but especially to popular speech and customs of the time. One hour attendance. One hour credit. First semester. *Not given in 1913-1914.* Sanford]

[34. **Cena Trimalchionis**—33 continued. Second semester. *Not given in 1913-1914.*]

[35. **Roman Religion and Mythology**—A lecture course. Occasional papers and reports by members of the class. One hour attendance. One hour credit. First semester. *Not given in 1913-1914.* Sanford]

[36. **Roman Religion and Mythology**—35 continued. Second semester *Not given in 1913-1914.*]

[37. **Roman Law**—Reading of selections from the public and private law of the Romans, accompanied by lectures. One hour attendance. One hour credit. First semester. *Not given in 1913-1914.* Sanford]

[38. **Roman Law**—37 continued. Second semester. *Not given in 1913-1914.*]

COURSES PRIMARILY FOR GRADUATES

[19. **Lucretius**—Books I and III, with an examination into modal uses of the remaining books. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.* Barber]

[20. **Cicero**—*de Oratore*, Book I, with an examination into modal uses in Cicero's essays. Two hours attendance. Two hours credit. Second semester. *Not given in 1913-1914.* Barber]

[23. **Latin Paleography**—A study of Latin manuscripts. One hour attendance. One hour credit. *Not given in 1913-1914.* Sanford]

[24. **Roman Epigraphy**—Study of select inscriptions. One hour attendance. One hour credit. Second semester. *Not given in 1913-1914.*

Sanford]

[25. **Seminary**—Special study of the syntax of the verb. Topics are assigned to students to investigate through the whole range of the literature. Two hours attendance. Two hours credit. First semester. *Not given in 1913-1914.*

Barber]

[26. **Seminary**—25 continued. Second semester. *Not given in 1913-1914.*

[45. **The Personal and National Characteristics of the Roman People**—Lectures. Papers by the students. One hour attendance. One hour credit. First semester. *Not given in 1913-1914.*

Barber]

[46. **The Personal and National Characteristics of the Roman People**—45 continued. Second semester. *Not given in 1913-1914.*

ROMANCE LANGUAGES AND LITERATURES

Professor Conklin, Assistant Professor Korsmeyer, Adjunct Professor Reese, Mr. Stewart

General undergraduate work enables the student to read modern and classical French with accuracy and appreciation.

Special undergraduate work provides for literary study in French, for practical drill in writing and speaking French and for the study of Italian and Spanish. Advanced students may, with the consent of the head of the department, avail themselves of the instruction offered in the Graduate College.

For the University Teachers' Certificate the following courses, or equivalents, are required: Major, courses 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 51, 52; minor, courses 1 to 12 inclusive. At least four semesters of strong work in the high school or three semesters in the University (Courses 1, 2, 3—15 hours) are required before specialization is really begun.

REQUIREMENTS FOR MASTER OF ARTS

For graduate study in Romance languages at least three years of French are necessary. For the courses in the following groups equivalents are accepted:

Philological Group—Second Minor: Old French, historical French grammar, Italian, or Spanish. First Minor: Requirements for second minor and further study of Old French and of Italian or Spanish. Major: Old French, historical French grammar, Italian, and Spanish, advanced course in either Italian or Spanish, Provençal, Romance phonetics.

Literary Group—Second Minor: Studies of different periods in French literature, Italian, or Spanish. First Minor: Studies of different periods in French literature, Italian, and Spanish, or advanced course in Italian or Spanish, Old French. Major: French writing and speaking; studies of different periods in French literature; Italian and Spanish, advanced course in either Italian or Spanish; Old French, historical French grammar, special readings.

COURSES PRIMARILY FOR UNDERGRADUATES

French

1. **Beginning French**—Introductory course. Five hours attendance. Five hours credit. First semester. Given in Summer Session, 1913.

Conklin, Korsmeyer, Reese, Stewart

2. **French**—1 continued. Second semester.

3. **French**—Second-year course. Modern reading. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1913.

Conklin, Korsmeyer, Reese

4. **French**—3 continued. Second semester.

5. **French Writing and Speaking**—Recommended with 3. Two hours attendance. Two hours credit. First semester. Conklin, Korsmeyer

6. **French Writing and Speaking**—5 continued. Recommended with 4. Second semester.

7. **Classical Authors**—One hour attendance. One hour credit. First semester. Reese

8. **Classical Authors**—7 continued. Second semester.

9. **Romantic School**—Two hours attendance. Two hours credit. First semester. Korsmeyer

10. **Romantic School**—9 continued. Second semester.

11. **French Writing and Speaking**—Advanced course (Teachers' course). Two hours attendance. Two hours credit. First semester.

Conklin

12. **French Writing and Speaking**—11 continued. Second semester.

* 13. **Modern French Drama and Novel**—One hour credit. First semester. Given in Summer Session, 1913.

* 14. **Modern French Drama and Novel**—13 continued. Second semester.

* Courses 13 and 14 interview work. Open to strong students with at least two years French. Consultation with head of the department before registration.

Spanish

31. **Beginning Spanish**—Introductory course. Five hours attendance. Five hours credit. First semester. Conklin, Reese
32. **Spanish**—31 continued. Second semester.
33. **Spanish**—Second year course. Three hours attendance. Three hours credit. First semester. Conklin, Reese
34. **Spanish**—33 continued. Second semester.
35. **Spanish**—Third year. Two hours attendance. Two hours credit. First semester. Reese
36. **Spanish**—35 continued. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

French

15. **Studies of Different Periods in French Literature**—Prerequisite: Courses 7, 8, 9, 10, or equivalent work. Two hours attendance. Two hours credit. First semester. Conklin, Kormsmeier
16. **Studies of Different Periods in French Literature**—15 continued. Second semester.
17. **French Literature**—16 continued. First semester.
18. **French Literature**—17 continued. Second semester.

Italian

41. **Beginning Italian**—Introductory course. Two hours attendance. Two hours credit. First semester. Kormsmeier
42. **Italian**—41 continued. Second semester.
43. **Italian**—Second-year course. Two hours attendance. Two hours credit. First semester. Kormsmeier
44. **Italian**—43 continued. Second semester.

COURSES PRIMARILY FOR GRADUATES

French

51. **Old French**—Grammar and reading. Two hours attendance. Two hours credit. First semester. Conklin
52. **Old French**—51 continued. Second semester.
55. **French Philology**—Historical French grammar, phonetical analysis of French words. One hour attendance. One hour credit. First semester. Conklin
56. **French Philology**—55 continued. Second semester.

Provençal

61. **Grammar, Reading, and Analysis**—One hour attendance. One hour credit. First semester. Conklin

62. **Provençal Literature**—Second semester.

Romance Phonetics

65. **Comparative Phonetics of Italian, Spanish, and French Provençal**—Lectures. One hour attendance. One hour credit. First semester. Conklin

66. **Comparative Phonetics of Italian, Spanish, and French Provençal**—65 continued. Second semester.

SANSKRIT AND COMPARATIVE PHILOLOGY

Head Professor Lees

The following courses in Sanskrit and comparative philology are open to advanced and graduate students. Although they are intended primarily for graduate students in either ancient or modern languages, yet they may be profitably pursued by any advanced and aspiring student who desires to secure a broader basis for special study in his chosen linguistic field.

The aim of the work in Sanskrit is to give the student such a knowledge of basic grammatical forms and elementary syntactical structure as to assist him greatly in the comprehension and mastery of similar phenomena in all our European languages.

The courses in comparative philology do not require or presuppose a knowledge of Sanskrit.

Sanskrit

1. **Beginners' Course**—Inflections and conjugations. Whitney's Sanskrit Grammar and interpretation of an easy text. Two hours attendance. Three hours credit. First semester. Lees

2. **Elementary Sanskrit**—Selected readings from the Nala and the Hitopadeśa as given in Lanman's Sanskrit Reader. Two hours attendance. Three hours credit. Second semester. Lees

3. Selections from the Hitopadeśa and the Manava Dharmasāstra. One hour attendance. One and one-half hours credit. First semester. Lees

4. Reading and interpretation of selected hymns of the R̥g-Veda. One hour attendance. One and one-half hours credit. Second semester. Lees

Comparative Philology

5. **The Elements of Linguistic Science**—Comparative philology of the more familiar divisions of the Indo-European family of languages. Lectures and discussions. One hour attendance. One hour credit. First semester. Lees

6. **The Elements of Linguistic Science**—5 continued. Second semester.

DEPARTMENT OF SLAVONIC

Adjunct Professor Šárka Hrbkova

1. **Beginners' Course**—Grammar, vocabulary, exercises, word structure. Selections from Reader. Five hours attendance. Five hours credit. First semester.

2. **Beginners' Course**—1 continued. Grammar continued. Conversation. "Staré Pověsti" by Jirásek, "Babička" by Božena Němcová, "Pod Dutým Stromem" by Hálek. Five hours attendance. Five hours credit. Second semester.

3. **Bohemian Literature**—Reading and interpretation of Erben's "Kytice Pověstí," Neruda's "Povídky," Havlíček's "Tyrolské Elegie" and "Epigramy." Three hours attendance. Three hours credit. First semester.

4. **Bohemian Literature**—3 continued. Reading and interpretation of Jirásek's "Filosofská Historie," Hálek's "Básně," "Divá Bára" by Němcová. Three hours attendance. Three hours credit. First semester.

5. **Bohemian Literature**—Svatopluk Čech's "Jestřáb contra Hrdlička," "Písň Otrocka," "Lešetínský Kovář," Kollár's "Slávy Dcera." "Malá Slovesnost." One to three hours attendance. One to three hours credit. First semester.

6. **Bohemian Literature**—5 continued. Study of dramatic writings of Tyl, Kliepera, Šubert, Šamberk, Vrchlický. One to three hours attendance. One to three hours credit. Second semester.

7. **Short Story Course**—Reading and reports. Authors considered: Čech, Machar, Klecanda, Němcová, Třebízský, Neruda. Two hours attendance. Two hours credit. First semester.

8. **Short Story Course**—7 continued. Modern Bohemian, Russian, and Polish writers. The structure of the short story. Composition. Two hours attendance. Two hours credit. Second semester.

9. **Conversation**—Class-room exercises in Bohemian. Idiomatic and

colloquial expressions. Review of grammar. Prerequisite: Bohemian 1 and 2 or satisfactory equivalent. Two hours attendance. Two hours credit. First semester.

10. **Conversation**—9 continued. Practice in every-day Bohemian. Composition. Two hours attendance. Two hours credit. Second semester.

11. **Slavic Life**—A lecture course in English on Slavic Life. Illustrated by 900 lantern slides covering subjects of history, customs, homes, occupations, costumes, amusements, child life, architecture, development of the arts and industries, social and educational ideals among the Slavic nations. One hour attendance. One hour credit. First and second semesters.

12. **Immigration**—A general view of the problem of the immigrant with special reference to the Slav. Sources and causes of emigration, racial, economic, political and social effects of immigration; assimilative forces at work; distribution of immigrants; character of recent immigration; restrictive and non-restrictive measures; proposed solutions of the problem. Two hours attendance. Two hours credit. First and second semesters.

13-14. **History of Bohemian Literature**—From the earliest times to the modern period. Based on Luetzow's "History of Bohemian Literature," Wratislaw's "The Native Literature of Bohemia in the Fourteenth Century," Pypin and Spasovič's "Historie Literatur Slovanských," Vlček's "Dějiny Poesie České," "Literatura Česká Devatenáctého Století," Tiefertunk, Jungmann, Morfil, Ninger. Two hours attendance. Two hours credit. First and second semesters. (Unless desired by a sufficient number of advanced students, this course will not be given.)

15. **Teachers' Course**—A special course in methods of teaching Bohemian. Assigned readings, reports, lectures, model teaching. A thorough review of the grammar and general summary of literature. Preparation of outlines for teaching. A survey of text-books used in teaching Bohemian. Suggestive helps and plans. Prerequisite: satisfactory work in Courses 1, 2, 3, 4, 9, 10, 11 or their equivalent. Two hours attendance. Two hours credit. First semester.

16. **Teachers' Course**—15 continued. Two hours attendance. Two hours credit. Second semester.

ZOOLOGY

Head Professor Wolcott, Professor Powers, Professor Barker, Mr. Mitchell, and Assistants; Professor Willard

GENERAL INFORMATION

Besides a lecture room and the private rooms used by members of the staff, the department possesses a large general laboratory, laboratories for advanced and research work, quarters for housing live animals, a library, and a well stocked storeroom. The usual equipment is at hand, including microscopes and projection lantern, slides, charts, models, and demonstration material of various kinds. Worthy of note is a large series of marine forms from the Naples Zoological Station supplemented by other marine and fresh-water material, a set of the Thiersch injected tissues, models by Ziegler, Dahlgren, and others, and a large collection of lantern slides and specimens illustrating parasitism, variation and other biological phenomena.

Students entering upon the study of zoology should elect courses 1 and 2, or 3 and 4, or A. Either course 1, or 3, or A, is required for admission to all subsequent courses, except 21 and 22 and 36. Students looking forward to the study of medicine have offered to them, after completing the first year work, courses 5 or 15, 6, 7, and as electives 17 and 18. Forestry students may elect 13. Others desiring to do so, and with sufficient reason, may, with the consent of the instructor, follow 1 or 3 by 12. Those expecting to teach will find it advantageous to elect 1 and 2, though they may by permission take 3 and 4, or A, and 34, followed or accompanied by 32, or 36; the requirements for the University Teachers' Certificate in this department being: for a major, courses 1 and 2, or 3, 4 and 5, followed by 6 or 7, 21, 22, and 34, and for a minor, courses 1 and 2, or 3, 4 and 5, and 34 (12 hours) or the same courses with the addition of 6 (16 hours). Those who plan to specialize in zoology, after completing courses 1 and 2, should take 5 and 6, and then may select further work from the several lines open to them.

Attention is called to the opportunities for preparation in lines leading to professional work in zoology. A course in economic zoology and entomology is offered which fits the student for experiment station work, and government work in entomology; by slight modification and the proper use of electives the course furnishes suitable preparation for the work of the U. S. Biological Survey. The student may also, by the election of courses in parasitology, animal pathology, etc., readily adapt his preparation to the needs of the work in the Bureau of Animal Industry, and by

the selection of certain courses chosen with the advice of the head of the department, prepare himself for work in the new laboratories of the Bureau of Fisheries, now being established. In all these lines there is a steady demand for properly trained men at good salaries. Students considering entering upon any of these lines of work are urged to consult freely with the head of the department.

Attention is particularly directed to the zoological work carried on under the separate departments of Entomology and of Histology and Embryology, the work of which supplements that of this department and must be considered by the special student who desires a well rounded course. Work in Biometry is offered in connection with the department of Mathematics.

The ability to read German and French is of great advantage in all courses in the department and is required in all graduate work.

FACILITIES FOR GRADUATE STUDY

Separate rooms are provided for research students, and there are also available a photographic room equipped with the necessary apparatus, an aquarium room abundantly provided with tanks and running water, and a live house for the keeping of larger animals. The supply of apparatus includes apochromatic lenses, Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus, including that for drawing and photographic work.

The department possesses alcoholic material which offers attractive opportunities for investigation along certain lines. Especially noteworthy is a very large collection of mites, a comparatively unworked group of great economic and scientific importance. There is a rapidly growing collection of parasitological material, affording good opportunities for investigation in that field.

A specialty is made of the maintenance in the aquarium room of permanent colonies of protozoa and a number of the lower invertebrates under various environmental conditions, which permits of extensive study of life histories and variation in these forms.

The library, adjacent to the laboratory and containing approximately 2,500 volumes, is especially strong in sets of publications of scientific societies and institutions and of zoological periodicals, and is supplemented by the private libraries of members of the staff which are accessible to research students working under their direction. The general University Library and the libraries of the College of Medicine, of the Nebraska

Experiment Station, and of allied departments, furnish many valuable series in addition.

The publications of the departmental staff and of graduate students are included in a series entitled "Studies from the Zoological Laboratory," of which five volumes of twenty numbers each have been completed, while of volume 6 numbers 101 to 106 have been published, and others are in press and in preparation.

The department has available one fellowship and two scholarships which are given to deserving students each year. Applicants can secure full information in regard to them by addressing the head of the department.

MASTER OF ARTS

To register as a candidate for the degree of Master of Arts, a student must have completed two years of undergraduate work in zoology, and one in botany. Before entering upon graduate work in zoology, the student must consult with the head of the department as to the details of his course, even though his work may actually be done under the immediate direction of another member of the staff. The ordinary requirements are as follows:

Minor: An amount of advanced work equivalent to six credit hours throughout the year, including a thesis and accompanied by the proportionate amount of assigned reading, including seminar work throughout the year.

Major: An amount of advanced work equivalent to 12 credit hours throughout the year, including a thesis and accompanied by the proportionate amount of assigned reading, including seminar work throughout the year.

Complete course: The whole time of the student for the year is spent in the field of zoology, and the subject selected for the thesis is accordingly more difficult than in the preceding case. .

DOCTOR OF PHILOSOPHY

The preparation required of the student is the same as for the Master's degree. The latitude allowed in the election of subjects is naturally much less, but the equipment of the department is such that in certain directions it is possible to offer work for this degree with zoology as a major. Of course the student may undertake such work only with the advice of the head of the department. The requirements are:

Minor: An amount of work approximating that of the complete course for the degree of Master of Arts.

Major: A course of graduate study which shall meet at least the minimum time requirement imposed by the Graduate College; the preparation

of a thesis which shall represent original research, and three years of seminar work.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **Introduction to Zoology**—For beginners and those wishing a general insight into methods and principles of the science. It is especially urged that all whose time and schedule permit take this instead of the briefer course. The lectures cover the general principles of morphology, physiology, development, classification and evolution of animals; the laboratory work, an intensive study of a few selected types, with an extensive study of numerous types drawn largely from the simpler invertebrates, and with subsidiary cytological and embryological material. Emphasis is laid on the study of living forms. Three hours attendance. Six hours laboratory. Five hours credit. First semester.

Powers, Mitchell

2. **Introduction to Zoology**—1 continued. Second semester.

3. **Introduction to Zoology** (Briefer Course)—For those whose time or schedule prevents enrollment for the previous course. The lectures are the same but the laboratory work is confined to a few types, the emphasis being laid upon methods. The course is relatively more difficult considering the time allowed than in the one preceding. Three hours attendance. Four hours laboratory. Three hours credit.

a. For academic students.

Powers, Mitchell

b. For students in the College of Medicine.

Barker

4. **Introduction to Zoology** (Briefer Course)—3 continued. Second semester.

A. **General Zoology**—For beginners and those who desire to complete the year's work in general zoology in one semester. This course covers the same field as courses 3 and 4. Five hours attendance. Eight hours laboratory. Five hours or, with additional assigned work, six hours credit. Second semester.

Barker

COURSES FOR UNDERGRADUATES AND GRADUATES

5. **Invertebrate Morphology**—Echinodermata, Arthropoda and Mollusca. The lectures cover morphology and taxonomy, the laboratory work comprises gross dissection and microscopical study, and the course serves also as an introduction to microscopical technique. Intended for the general student and continuing the work of the first year by carrying it on to the higher invertebrate types. Three hours attendance. Four to eight hours laboratory. Three or four hours credit. First semester. Prerequisite: Courses 3 and 4, or equivalent.

Barker

6. Comparative Anatomy of the Vertebrates—The lectures cover the entire group of vertebrates. The laboratory work includes the dissection of a fish, amphibian, reptile or bird, and mammal, with demonstrations from preparations in other groups. Methods of preparing dissection material and making injections of circulatory system. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Prerequisite: Courses 3 and 4, or equivalent. Willard

7. Comparative Osteology of the Vertebrates—A study in morphology, with the skeleton as a basis. The lectures are general and comparative. For the academic student laboratory work of similar character is arranged. For students in medicine and in physical training who expect to go on to human anatomy, the laboratory work involves a detailed study of the human skeleton, which is done in the anatomical laboratory in connection with the work in human anatomy (Anatomy 1 or 15). Two hours attendance. Four hours laboratory. Two hours credit. First semester. Should be preceded or accompanied by courses 3 and 4, or equivalent. Wolcott

9. Advanced Work in Animal Morphology—Devoted to the study of some assigned problem in morphology. Laboratory work with conferences and reading. May be elected as a five to ten hours study. First semester. Elected only after consultation with instructor. Wolcott, Powers, Barker

10. Advanced Work in Animal Morphology—9 continued. Second semester.

12. Economic Zoology—A course in which the economic aspects of zoology are emphasized. Lectures, laboratory and field work. Intended for those specializing in agricultural subjects. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester. Must be preceded by courses 3 and 4 or equivalent, or by permission of the instructor may follow 1. Wolcott

13. Forest Zoology—Consists of a brief review of the fundamental principles of zoology followed by a study of the animal life of forests, exclusive of insects, with particular attention to fish and game and to forms directly beneficial or injurious and which affect the propagation and growth of forest trees either in a state of nature or under cultivation. Open only to students in the Forestry Group. Three hours attendance, four hours laboratory and field work. Three hours credit. First semester. Wolcott

15. Medical Zoology—Lectures on morphology, taxonomy and relation to medicine of the groups Protozoa, Platyhelminthes, Nematelminthes and

Arthropoda and their role in the production and transmission of disease. The laboratory work comprises gross dissection and microscopical study and serves as an introduction to microscopical technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisite: Courses 3 and 4, or equivalent.

Barker

17. Animal Parasites—Taxonomy, morphology, biology and economic relationship of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four to twelve hours laboratory. May be elected as a two to five-hour course. First semester. Open to students who have had Zoology 3, 4, and 5 or 15 or their equivalent.

Barker

18. Animal Parasites—Course 17 continued. Second semester.

21. The Historic Concept of Evolution—The semester is devoted to the development of the evolutionary aspect of biology from approximately the beginning of the eighteenth century to the last quarter of the nineteenth, covering the work of Darwin's most influential predecessors, or Darwin himself, and of his contemporary followers and critics. Lectures and assigned readings. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Powers

22. Modern Genetics—This course naturally follows course 21, which must precede it for all except advanced students. The ground covered includes much of modern experimental evolution with the resulting recent genetic theories as well as some of their practical bearings. Two hours attendance. Four hours preparation. Two hours credit. Second semester

Powers

25. Advanced Work in Experimental Zoology—Individual work on an assigned problem. Laboratory work with conferences and assigned readings. May be elected as a five to ten hour subject. First semester. May be taken only by permission of instructor.

Powers

26. Advanced Work in Experimental Zoology—Course 25 continued. Second semester.

27. Advanced Work on Local Fauna—A course in ecology, devoted to the study of some problem connected with the distribution within the state of a certain group of animals, or with the fauna of a certain habitat. The aquarium room offers facilities for keeping material throughout the winter. Field and laboratory work with conferences and assigned reading. May

be elected as a five to ten hour course. First semester. Open only to a limited number, by permission of instructor. Wolcott, Powers

28. **Advanced Work on Local Fauna**—Course 27 continued. Second semester.

32. **Zoological Fresh-Water Biology**—Open only to students who have taken or are taking Zoology 1 and 2, or 3 and 4. Four hours laboratory and field work, two hours preparation; two hours credit. Second semester. Powers

34. **Methods in Teaching Zoology**—A course for high school teachers, including a discussion of the methods of presenting the subject, of the choice of books and of the collection and handling of laboratory materials. Two hours lecture and conference. Assigned reading, laboratory and field work in addition. Two hours credit. Second semester. Open regularly to students who have taken or are taking courses 3 and 4, or equivalent. Wolcott

36. **Ornithology and Nature Study** (Teachers' Course)—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two-hour course in nature study, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all but recognized in part fulfillment of the group requirement for a degree only if elected as a two-hour subject, and by arrangement with the instructor. Wolcott and Assistant

41. **Seminar**—Reviews of recent literature and discussion of current problems. Participated in by the department staff, open to election by advanced students and required of candidates for advanced degrees, of whom are required reports on assigned readings. One hour attendance. One hour credit. May be elected more than once. First semester.

42. **Seminar**—41 continued. Second semester.

43. **Research**—The equipment of the department and the library facilities are such that research along certain lines indicated below is being carried on. An extensive Salt Basin, including a salt lake over a mile in extent and alkali flats with numerous ponds, all within a few minutes' walk of the campus, offer noteworthy opportunities for certain types of investigation.

a. Morphology of the mites. Ecological studies and investigations on the local fauna. Study of variation in certain insect groups, particularly the tiger-beetles. Wolecott

b. Morphology of the protozoa. Experimental research on reproduction of fresh-water hydroids and rotifers; and on problems involving growth, regeneration, color pattern, etc., in the salamander. Variational and distributional studies on the animal life of ponds, especially those of the Salt Basin. Powers

c. Morphology of the parasitic protozoa and worms. Barker

UNIVERSITY EXTENSION

A. A. Reed, Acting Director

Aim of Regents—The constant aim of the Regents of the University of Nebraska is to make the University a school of the people, by the people, and for the people—to bring the University and the home in closer touch; to give every citizen a chance to get the highest education at the smallest possible cost; to take the University to all the people of the state who are unable to adjust themselves to the formal system of education.

Purpose of University Extension—The purpose of University Extension work is to give all persons who are unable to formally attend school an opportunity through correspondence study to investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational,—problems in sanitation, city lighting, sewerage; banking, crises, money, divorce,—in fine, all problems that may concern the citizens of Nebraska.

To Whom the Work Appeals—University Extension work, therefore, appeals to the following classes of persons: (1) rural, grade, and high school teachers who cannot avail themselves of resident instruction; (2) students preparing for college; (3) college students who are unable to pursue continuous resident study; (4) teachers and others who have a partial college course and wish to work along some special line; (5) instructors in higher institutions who desire assistance in the advance study of some subject; (6) professional and business men who wish technical information; (7) ministers and Bible students who wish to study the sacred scriptures from a literary standpoint; (8) all who desire a broader knowledge or a more thorough and comprehensive scholarship.

Division of Work—As a matter of convenience, the work is divided into four departments as follows:

I. Correspondence-Study.

- II. Instruction by Lectures.
- III. Debating and Public Discussion.
- IV. General Information and Welfare.

I. Correspondence-Study

The possibility and efficiency of teaching by correspondence-study has already been demonstrated by practical experience in University Extension work in the leading universities and colleges of both Europe and America. While such instruction lacks some of the advantages which resident study gives, it has compensating advantages of its own. In correspondence instruction the teaching is personal and individual. Every student studies and recites the whole lesson, and comes in contact by correspondence with the teacher as an individual, not as a member of a large class. Correspondence-study employs the spare time of the student, gives him an interest besides his daily work. It can be done at home, and thereby brings into the home a new influence and charm. Correspondence work, moreover, throws the student upon his own resources and makes him self-reliant and self-determining.

Through this new department, the University is reaching out a helping hand to every citizen. It plans to add to the resources of life, of education and of industry; to give practical assistance to the farmer and the mechanic, to the professional man and the business man, to the employer and the employee, to teacher and to student, to farmer boy and farmer girl, to housekeeper and home-maker.

For all who desire to take correspondence-study the University of Nebraska, through its Extension department, is able to offer:

First. Correspondence courses of study in all subjects required for city county and state certificates.

Second. Correspondence courses of study for University credit, as follows:

- Administrative School Law.
- American Government.
- American History—General Course.
- Life and Times of Lincoln.
- Agriculture—Elementary.
- Agronomy I—Soils.
- Agronomy II—Cereal and Forage Crops.
- Bohemian.
- Civics.

Civics and Health.
Educational Theory and Practice.
English Literature I.
English Literature II.
English Literature 5a.
English Literature 6a.
English Literature VII—Comparative.
Geography of Nebraska.
Geology.
Greek History.
Industrial Geography.
Nebraska History and Nebraska Problems.
Philosophy of Education.
Physical Education.
Physical Geography.
Reading.
Rhetoric I.
Rhetoric II.
The Secondary School.
School Administration.
Trigonometry.
Weather and Climate.
Zoology.

Methods of Work and Instruction—Each lesson contains: (1) full directions for study, including reference to the text-books by chapter and page; (2) necessary suggestions for assistance; (3) questions to test the student's method of work as well as his understanding of the ground covered. After a careful study of the subject, the student writes his answers to the questions, with a statement of any difficulties that may have arisen during his study, and mails them to the Director of University Extension. Station A, Lincoln, Nebraska. The answer papers are carefully read and marked by the proper examiner, and are returned to the proper student by the Director. In like manner every lesson is carefully criticised by the instructor and returned, so that each student receives personal guidance and instruction throughout the course. The following specific directions must be followed by all correspondence students: The writing material should be the regular student's note-paper, regular teacher's examination paper, or single sheet legal cap. All papers must be written in ink. Answers shall be written on one side of the paper only. The name of the

course and the name and address of the student must be written at the top of the first page of each set of answer papers. Each page of answer papers must be properly numbered and fastened together in consecutive order before mailing to the Extension office. Answers must be in clear, concise terms. The answers must be numbered in the middle of the page to correspond to the questions. Credits will be deducted from carelessly written or illegible manuscripts. Correspondence students must use sufficient postage when mailing answer papers to the Extension office. On returning these papers to correspondence students, the Extension office will furnish the postage.

Requirements for College Credit—Three hours' preparation constitute the minimum requirement in Extension work in any and all subjects for one hour of college credit. No credit is given without the approval of the head of the department in which the Extension work is taken. The final examination is given under such rules and regulations as the head of the proper department may require. Only one-half of the unit hours required for graduation may be taken in correspondence study.

Requirements for Entrance Credit—Ten hours of preparation each week for one semester or a period of sixteen weeks constitute the minimum requirement in the Extension work for a credit point for entrance to the University. No entrance credit is granted without the approval of the head of the proper department.

Requirements for Certification Credit. Extension work pursued by those desiring to fit themselves for the teachers' examination for county, city or state professional certificates granted by the State Superintendent of Public Instruction is given under the supervision of the Director of University Extension, with the approval of the head of the proper department.

Expenses and Fees—The fees for correspondence study are placed upon the lowest operating basis possible for thorough and expeditious instruction. Those who will investigate the fees charged by other state universities, private schools and colleges for correspondence study will find that the University of Nebraska has undertaken to do University Extension work at a lower cost to its students in the Extension department than has ever been done before in this country, and at the same time not lower the efficiency of the instruction given. The fact must be borne in mind that the correspondence student is usually engaged in a gainful occupation or profession, whereas the resident student temporarily suspends his earning power. The correspondence student may also be said to be turning his

leisure time into economic values by this method. These and many other factors contribute toward establishing this as an inexpensive system of achievement and education. All fees are payable in advance. There will be no refund of any fee paid for Extension work unless the University is unable to give instruction in the course of study applied for by the student.

Text-Books and Supplies—All text-books and supplies necessary for the work desired may be bought from the Purchasing Agent, Station A, Lincoln, Nebraska, at cost. The student may purchase direct from the publisher, but it will expedite matters for those who take the work, as well as for the extension department, to deal direct with the Purchasing Agent of the University, and in nearly every case it will be cheaper for the student so to do, as the University can secure all books at wholesale price, while the student could only obtain retail prices.

Time for Completing Work—It is assumed that a semester's course of study in correspondence work may be completed by the average student in eighteen weeks on a minimum leisure for study of one hour and a half per day, six days in the week. It is, however, the student's privilege to pursue his studies as fast as he can or as slow as he must. If for reasonable cause the student desires more than one semester in which to complete the semester's work, this may be granted, but only under extraordinary circumstances will the student be given more than one year from the date of registration in which to complete a course of study. All students taking correspondence work are cautioned against trying to carry too much work at one time. When the student is over-burdened by regular daily duties and correspondence study, University Extension work will become a punishment and a detriment rather than a pleasure and an inspiration as it may when a reasonable amount of work is undertaken.

May Register Any Time—One of the best features of University Extension work is that the student may register at any time and pursue the course of study alone, if necessary. As a rule better work can be done where there is a class of persons working together in an Extension center under a competent leader. But this will be impossible for a great number of those who desire to do Extension work. Therefore, they are given the opportunity of registering at any time and working alone.

Examinations—Where the student is taking correspondence-study to prepare for the examination for a teachers' certificate, the final examination will be given under the rules and regulations governing the county teacher's examination, and will be conducted by the county superintendent

or by the city superintendent of normal training high schools. This will place the examination within easy reach of every teacher taking the work. Where the final examination is taken for University credit, it will be given under the authority of the University of Nebraska and will be conducted by county superintendents, city superintendents and high school principals throughout the state as representatives of the University. This makes all examinations especially convenient for all who may be taking correspondence-study.

II. Instruction by Lectures

Instruction by lectures is an important feature of University Extension work. The University of Nebraska is able to offer through its Extension department first-class lecture talent at reasonable rates.

Nearly all members of the faculty are available for lecture engagements. Many lectures and addresses can be secured for educational gatherings on the payment of actual expenses. In all cases the charge is nominal.

III. Debating and Public Discussion

We cannot better emphasize the aims of this department and the value of Debating and Public Discussion than to quote from the report of Dean Louis E. Reber, Director of University Extension of the University of Wisconsin: "This department aims to arouse and stimulate among all classes of people an intelligent and active interest in important social and political questions. Believing that there is no form of popular education that tends more essentially to the making of good citizens than study and discussion of live issues, the department collects and maintains a loan library of books and periodicals relating to questions of the day, available upon application, issues bulletins on special topics, and keeps in touch by correspondence or personal interviews with civic leagues, town councils, library and school boards, farmers' and business men's clubs, high school and academy societies, and all similar organizations throughout the state. It is difficult to estimate the value of wide-spread, systematic training of this character in its influence upon the citizens of the state. It is conceded that no other study in the university or college does more to discipline the mind and promote an interest in questions vitally affecting humanity and the government than the work done in debating societies. It is fortunate that so useful and so broadening a pursuit can be carried on in the home of the student without interruption to his regular occupations. Without

other outlay than time and thought the debater is led, first to feel an interest in and desire to know about the great national and state issues of his day. This point gained, he is taught where and how to obtain material for his studies, a valuable asset in itself, if by this means he acquires the ability to inform himself when and upon what subjects he will. In studying great questions and formulating them for debate he learns to discriminate between fundamental underlying principles and non-essentials. He comes to recognize sound reasoning, not only in questions he debates, but in all his reading. In presenting arguments in public he is gaining lessons of self-control, of correct speech, and of concise thinking. That an immense influence may be exerted in countless directions by means of such training spread abroad throughout the state is evident."

The Nebraska High School Debating League was organized by Prof. M. M. Fogg, Department of Rhetoric, University of Nebraska, in January, 1908, at the earnest solicitation of several of the leading school men in the state, for the purpose of promoting oral discussion in Nebraska secondary schools. Thirty-one schools participated in twenty League contests during the first year of its organization. Each year since there has been an increase in the membership and interest. Where any school belonging to the League desires material on the subjects to be debated during the ensuing year, it will be furnished at actual cost through the Extension department. This material will be selected by expert debaters working under the direction of Professor Fogg. This plan reduces the cost for debating material to the minimum for all schools belonging to the League.

IV. General Information and Welfare

The departments of history, political economy, sociology and the colleges of argiculture, law and medicine will, through the General Information and Welfare Department of University Extension, render valuable assistance to thousands of persons throughout the state.

University Extension is for the benefit of all the people and must be comprehensive both with reference to including the work of all departments of the University proper, so far as practicable, and in covering the widest possible range of study of all questions that concern the people of the commonwealth. Its purpose is clearly set forth in Professor Caldwell's report to the Chancellor and Regents, made April 18, 1908: "To investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational; problems of sanitation, city lighting, sewerage; banking,

crises, money, divorces, etc.—in fine, all problems that may concern the citizens of Nebraska.”

For further information relative to any question concerning University Extension work, write the Director of University Extension, Station A, Lincoln, Nebraska.

The College of Engineering

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University
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OSCAR VAN PELT STOUT, C. E., Head Professor of Civil Engineering
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ELLERY WILLIAMS DAVIS, Ph. D., Head Professor of Mathematics
and Dean of the College of Arts and Sciences.

GEORGE RICHARD CHATBURN, A. M., C. E., Head Professor of
Applied Mechanics and Machine Design.

JAMES DAVID HOFFMAN, M. E., Head Professor of Mechanical En-
gineering and Practical Mechanics.

LEON WILSON CHASE, B. Sc., Head Professor of Agricultural Engi-
neering.

GEORGE EVERT CONDRA, Ph. D., Head Professor of Geography and
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JAMES EDWARD LE ROSSIGNOL, Ph. D., Head Professor of Political
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CLARENCE AURELIUS SKINNER, Ph. D., Head Professor of Physics.

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Engineering.

* GEORGE HART MORSE, E. E., Professor of Electrical Engineering.

PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.

BENTON DALES, Ph. D., Professor of Chemistry.

EVERETT NEWTON BOWMAN, 1st Lieut. Inf. U. S. A., Professor of
Military Science and Tactics.

* Resigned.

- GEORGE OLIEH VIRTUE, Ph. D., Professor of Political Economy and Commerce.
- CLARK EDMUND PERSINGER, A. M., Professor of American History.
- PHILIP K. SLAYMAKER, M. E., Associate Professor of Applied Mechanics and Machine Design.
- LOUIS BRYANT TUCKERMAN, JR., A. B., Associate Professor of Theoretical Physics.
- CHARLES LEE DEAN, B. Sc. in M. E., Associate Professor of Mechanical Engineering.
- JUDD NOBLE BRIDGMAN, M. S., Associate Professor of Civil Engineering.
- NELS AUGUST BENGTSON, A. M., Associate Professor of Geography and Conservation.
- * LYNN A. SCIPIO, A. B., B. S., Assistant Professor of Mechanical Engineering.
- JESSE EPHRAIM RASMUSEN, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design.
- ADOLPH STORM RIDDERVOLD, Assistant Professor of Civil Engineering.
- GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry.
- BENEDICT FREDERICK RABER, B. Sc. in M. E., Associate Professor of Mechanical Engineering.
- VERNON LEO HOLLISTER, E. E., Associate Professor of Electrical Engineering.
- ALBERT EGGLETON BUNTING, Adjunct Professor of Practical Mechanics.
- CLARK EDWIN MICKEY, B. Sc. in M. E., B. Sc. in C. E., Assistant Professor of Applied Mechanics.
- IVAN DALEY WOOD, B. Sc. in A. E., Instructor in Agricultural Engineering.
- LAWRENCE FROYD SEATON, B. Sc. in M. E., Assistant Professor of Agricultural Engineering.
- EARLE BRUSH KINGSLAND, Ph., B., B. Sc. in C. E., Instructor in Civil Engineering.

* Resigned.

ROBERT L. MOORE, Instructor in Forge.

RALPH WILLIS GODDARD, B. Sc. in E. E., Instructor in Electrical Engineering.

WALTER SCOTT PAYNE, Instructor in Foundry and Machine Shops.

JOHN GRENNAN, Instructor in Forge and Foundry Work.

Standing Committees of the College of Engineering

Course of Study—Professors Chatburn, Ferguson, Hoffman, Chase, and Dean.

Schedule of Classes—Professors Engberg, Hollister, Dean, Rasmusen, Riddervold, Slaymaker, Bridgman, Tuckerman, Brenke, Mickey, Bunting, the Registrar.

Advanced Standing—The Chancellor, Dean, and Inspector of High Schools.

Unclassed Students—Professors Hoffman, Ferguson, Chatburn, and the Registrar.

ORGANIZATION OF THE COLLEGE OF ENGINEERING

By an act of the Legislature of 1909, the Industrial College of the University was abolished and the engineering departments, formerly included in that college, were organized into a College of Engineering. It is the purpose of this college to give a broad, thorough training in mathematics and the physical sciences, with the application of these subjects to the fundamental and special branches of engineering science. While strongly emphasizing those subjects which are of fundamental importance to all branches of engineering, a considerable amount of specialization is permitted in the several groups of study offered by the college. In each department of instruction the work in the class room is made clear and real by extensive work in the laboratories.

EQUIPMENT AND FACILITIES FOR INSTRUCTION

Three buildings on the University Campus and one at the University Farm are devoted primarily to the work in the College of Engineering: the Electrical Engineering Laboratories, erected in 1891; Mechanic Arts Hall, erected in 1898; the Mechanical Engineering Laboratories, erected in 1909, and Machinery Hall.

Mechanic Arts Hall is devoted to the work in civil engineering, electrical engineering, applied mechanics and machine design and mathematics. In addition to the lecture rooms, designing and instrument rooms and offices of these departments, the building contains the materials laboratories, the engineering library and several drawing rooms.

The Materials Laboratories, devoted to the testing of the strength and other properties of the materials of construction, occupy three rooms in Mechanic Arts Hall. The first, 20 by 65 feet, contains a 200,000-lb. Riehle universal testing machine, a 50,000 Olsen universal machine, a 50,000-in. lb. torsion testing machine, an engine lathe and other tools for preparing specimens, cases for deflectometers, compressometers, extensometers, and other instruments and apparatus for the proper operation of these machines. An adjoining room, 30 by 40 feet, contains two types of cement testing machines, tables and apparatus for molding and storing briquettes; apparatus for consistency, setting, soundness and fineness tests. Also standard testing machines for abrasion, toughness, cementation, and other properties of rocks, brick, soils, sand and other non-

bituminous road making materials. The third room, 15 by 25 feet, is equipped for classifying and testing bituminous road and paving materials, there being a Dow penetration machine and various forms of apparatus for determining specific gravity, viscosity, consistency, flow, tenacity, etc.

The Engineering Library contains a large and valuable collection of engineering and mathematical books, bound periodicals, transactions of engineering societies, with all the more important engineering journals. The completeness of this library makes it well adapted for study and research.

Surveying. For the work in surveying a large assortment of levels, transits, plane tables, rods, chains, etc., is provided.

Drawing Rooms. The freshman drawing room, a large, well lighted and well ventilated room, is situated on the fourth floor of Mechanic Arts Hall. It is supplied with good oak desks and instrument lockers to accommodate six sections of fifty students each. The drawing rooms for machine design and mechanism are on the third floor of the same building, while those for civil engineering classes are on the second and first floors. Other rooms for the mechanical and electrical engineering students are in the buildings devoted to those subjects.

The Electrical Engineering Laboratories, consisting of the main power laboratory, the photometry laboratory, and small research laboratories, furnish facilities for instruction in the practical management of stationary and dynamo electric machinery and apparatus, as well as the illustration of modern current practice in design. The equipment has been selected largely with a view to emphasizing the application of theoretical principles to practical commercial electrical engineering. Measuring instruments and testing devices are provided covering a wide range of experimental requirements. There follows a list of some of the larger electrical machines on the floor of the power laboratory.

Two 15 kw. Edison bipolar, shunt-wound generators;

One 30 kw. Westinghouse single-phase 133-cycle alternating current generator;

One 15 kw. General Electric Company's alternating-current generator specially arranged for single, two, three or six-phase connections;

One 20 h. p. "Lincoln" variable-speed direct-current motor;

One 30 h. p. Crocker-Wheeler Company's three-phase 220-volt induction motor;

One Westinghouse Electric & Mfg. Company's two-phase 220-volt induction motor;

One 7½ kw., synchronous converter, and one six-phase synchronous converter;

A number of constant-potential transformers and one constant-current transformer;

Also several different types and sizes of direct-current motors.

During the fiscal year of 1912 and 1913 the following apparatus will be installed:

One synchronous motor generator set, consisting of two similar units of 7½ kw., six-phase, 110-volt, 60-cycle, revolving field machines, shaft coupled, and provided with mechanical phase adjustment;

One General Electric oscillograph with three moving elements for simultaneously taking photographs of three alternating currents;

One 7 kw. compound generator;

One 8 kw. split-pole synchronous converter;

Several transformers with special voltage ratios and numerous taps;

One mercury-arc rectifier;

A 65-cell Gould storage battery;

Two 15 h. p. 220-volt direct-current interpole, variable-speed motors;

Additional instruments and meters.

This equipment will afford facilities for valuable advanced research.

The Mechanical Engineering Laboratories building, recently completed at a cost of \$118,000, is the largest and one of the finest in the university group. The building contains the class rooms, offices, and the following important laboratories of the Department of Mechanical Engineering:

The Power Laboratory, for experimental and research work in steam engineering, gas power engineering, refrigeration and hydraulics. Among the most important items of equipment in this laboratory may be mentioned: A 150 h. p. cross-compound, condensing Corliss engine, with appliances and apparatus for research work; a 20 and a 25 h. p. simple automatic engine; a 5, 15 and 40 h. p. simple throttling engine; two 20 h. p. steam turbines of different types; a 65 h. p. cross-compound, two-stage air compressor with Meyer valve gear; a 50 h. p. Buckeye tandem producer gas engine attached to a specially designed Smith suction gas producer, arranged to burn any kind of fuel; an 18 h. p. Mietz & Weiss oil engine; a 14 h. p. Jacobson automatic gas and gasoline engine; an 8 h. p.

Springfield gas and gasoline engine; a ten ton York refrigerating machine, complete with freezing tank, etc., for the study of refrigeration and the manufacture of ice; a large duplex, direct acting steam pump; two surface condensing outfits; two three-stage turbine pumps, each direct-connected to a 50 h. p. variable speed, three-phase induction motor; a complete equipment of New York and Westinghouse air brakes; a large steel pressure tank with concrete weir tanks, weighing tanks, scales, etc., for experimental work in hydraulics and the testing of hydraulic motors; together with a large assortment of indicators, dynamometers, etc.

The Fuel Testing Laboratory, containing a number of coal and gas calorimeters for determining the heating value of coal, gas and oil, and the necessary apparatus for testing lubricants and friction.

The Wood Working Laboratory, containing forty speed lathes and thirty-two work benches, with complete sets of tools, a pattern makers' lathe, combined cross-cut and rip buzz-saw, band saw, jig saw, planer, etc.

The Foundry Laboratory, containing two cupola furnaces, two brass furnaces, core ovens, a large traveling crane and all other necessary apparatus for foundry work.

The Forging Laboratory, containing thirty-five down draft forges, complete with tools, a large direct-connected motor driven blower and exhaust fan, a steam hammer, drill press, etc.

The Machine Tool Laboratory, containing fifteen screw cutting lathes, two speed lathes, a large planer, two shapers, two milling machines, a large horizontal boring mill, a large universal grinding machine, a universal cutter grinder, several drill presses, including a large radial drill, together with a variety of other tools, machines, and benches for machine tool and bench work in the metals.

The University Heating and Power Plant houses the University power and heating boilers, stokers and electrical generating plant of 400 kw. capacity. While primarily a "commercial" plant, the apparatus may be used occasionally by engineering students for testing.

The Agricultural Engineering Buildings, located on the campus of the University Farm, contain laboratories for work in wood, for forge work and for instructional, experimental and research work with farm machinery, farm motors, rural architecture, etc.

STUDENT ORGANIZATIONS

The Engineering Society. Membership in this society is open to all students in the college. It was organized to promote interest in engineering science and the work of the College of Engineering. In addition to papers presented by its members, there are, during the year, a number of addresses delivered before the society by professional engineers. The society issues a semi-annual publication called the *Blue Print*, containing technical articles by students, alumni and members of the faculty.

Student Branch of the American Institute of Electrical Engineers. This society, authorized by the A. I. E. E. to develop an interest in electrical engineering in general and the work of the parent society in particular, is open primarily to students in the electrical engineering group, and to local electrical engineers.

Student Branch of the American Society of Mechanical Engineers. This society, authorized by the A. S. M. E., is open primarily to students in the mechanical engineering group.

Literary and Social. The Palladian and the Union are open University literary societies meeting weekly on Friday evenings in their rooms in the Temple. Membership in a number of other literary and social clubs is open to students in the College of Engineering.

Religious. The Young Men's Christian Association, a non-sectarian and voluntary organization of Christian men, members of the University, organizes and conducts Bible study among the students, holds public meetings, helps students to find suitable rooming and boarding places, gives free aid to students in search of employment, and publishes an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of the Young Men's Christian Association, Station A, Lincoln, Nebraska.

ADMISSION TO THE COLLEGE OF ENGINEERING

Entrance Credits. For admission to the Freshman class the candidate must present entrance "credits" equal to 30 "points,"* that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 28 "points," or 140 hours, to candidates who are grad-

*A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week plus two double periods of laboratory work under the supervision of an instructor. The time element with each subject is essential.

uates of a secondary school accredited to the University. Candidates who are not graduates of a secondary school or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity. The degree will not be granted until such conditions are removed. Persons unable to meet the requirements for admission to the freshman class but who are able to qualify as "adult special" students may be admitted as such. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for a degree. All candidates for admission should forward their entrance credentials to the Registrar at least one month in advance of registration.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

Required Subjects—		Points
English		4
History European) (a)		2
Language (Foreign) (b)		6
Mathematics (c)		4
Science (Laboratory) (d)		2
Elective Subjects—		
Other subjects taught in an approved manner in an accredited secondary school		12
Total.....		30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c) Mathematics: For entrance to College of Agriculture four points are required. Advanced algebra and solid geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering six points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- (d) Science: It is recommended that Physics be offered in meeting the science requirement.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the college as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Request for admission as special students must receive the approval of the Committee on Unclassified Students; the action of this committee is final. Where possible, regular students must carry at least 12 hours of required work as scheduled under "Groups," or they become special, in which case their registration must be approved by the Committee on Unclassified Students.

Advanced Standing. Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which

registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence, in his senior year, at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

Entrance from Accredited Schools. The University maintains a list of "accredited" secondary schools whose *graduates* are admitted to the University without entrance examination in duly certified subjects. The list of these accredited schools is given under "General Information Concerning the University," in the general catalog and also in the High School Manual published annually by the University and the State Department of Public Instruction.

Registration. Registration in the College of Engineering takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.* A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of his college. No regular student is allowed to register for less than twelve (12) hours nor for more than eighteen (18) hours a semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

*Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

Advisers. Since the first year's work in the Engineering College is practically the same for all groups, any member of the Engineering faculty may act as adviser to freshmen. For the second and subsequent years a student's adviser is the head of the department in which he expects to take his degree or some person delegated by that head to act for him. The adviser to unclassified students is the chairman of the Committee on Unclassified Students. No schedule of subjects is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college.

REQUIREMENTS FOR GRADUATION

Hours of Credit. In all of the four-year groups in the College of Engineering, 125 hours of University credit* are required for graduation. No student is recommended for graduation who is not within eighteen hours of this requirement at the beginning of his last semester.

Required Subjects. The subjects required for graduation from any one of the four-year engineering groups are given under the appropriate group heading on pages 24 to 32. Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed prohibits participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A reprieve does not abridge or otherwise modify a man's requirement in military science save to defer the period for discharging it. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Those excused for conscientious scruples are required to do work in physical education equivalent in amount. Thorough drill elsewhere than at the University may, as in case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

*A course receives one hour of credit for each one hour recitation or lecture and two-hour preparation period it demands for each of the eighteen weeks or a semester. A laboratory course in engineering receives one hour credit for each three-hour period per week.

Special Examinations. The board of regents has made the following ruling: (1) No student has a right to demand a private examination. Such examinations are granted simply as favors, at the option of instructors. (2) No member of a class or section may, for any reason or under any pretext whatever, be privately examined at an earlier time than that set for his class or section. Any individual examination permitted must be held later. (3) To be examined at a time later than that set for his class or section, whatever the reason, a student must pay a special examination fee of \$1 a course. The student desiring an individual examination in any course first obtains his instructor's consent thereto, and then pays the Secretary the proper fee, taking a receipt. This receipt, being shown the instructor, authorizes him to proceed with the examination.

Student Rules and Regulations. Students in the College of Engineering are under the same University regulations as are the students of the other colleges of the University in regard to absence, delinquency, dismissal, student activities, and rooming. The most important of these rules are summarized in the first section of the annual general catalog of the University; a pamphlet containing the entire set of rules may be obtained from the Registrar.

FEES AND EXPENSES

Fees must be paid, upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The following fees are required of students in the College of Engineering:

Matriculation (on first registration only).....	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	
Non-resident tuition (charged persons not residents of the State of Nebraska), each semester	15.00
Incidental, each semester	3.00
Library (if no laboratory fees are paid).....	1.00
Diploma fee	5.00
If degree is taken <i>in absentia</i> , \$10.00 additional.	

Special registration (late registration or re-registration).....	\$3.00
Special examination	1.00

LABORATORY FEES

Agricultural Engineering—Courses 1, 2, 11, \$3; 3, 5, 6, \$1; 4, \$3; 18, \$2; 9, 10, 12, 16, \$4; 13, \$5.	
Applied Mechanics—Courses 15, 18, \$4; 17, 20, \$3; 25, \$5.	
Chemistry—Courses A, B, 1, 2, 21, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2 combined, 3, \$10; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1; 14, \$8; 20, \$4.	
Civil Engineering—Courses 5a, 6a, 8, 30, \$3.	
Electrical Engineering—Courses 8, 8a, 9, 10, \$5; 9a, 10a, \$2.	
Mechanical Engineering—Courses 2a, 3a, 18, \$2; 2, 4, 15, \$4; 1, 3, 5, 16, 17, \$6.	
Physics—Courses 1, 2, 3, 4, 6, \$4.	

These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the Secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

Expenses. The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

STUDENT LOAN FUND

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students

needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are limited to students in the Engineering College. Mrs. Ida C. Carter, of New York, has arranged to give a fund of \$500, to be known as the A. E. Carter Loan Fund, in honor of her husband, who was a graduate of the College of Engineering. This fund is available for students of that College only. The interest received from the loaning of this money goes to increase the fund. The full rules for its administration and application blanks may be obtained from the office of the Secretary. Loans will only be made to students in need of assistance and to those who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits for temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or leaves school.

GROUPS OF STUDIES AND DEGREES

The College of Engineering offers four-year groups of study in Architectural, Agricultural, Civil, Electrical and Mechanical Engineering, leading to the degree of Bachelor of Science in Architectural, Agricultural, Civil, Electrical or Mechanical Engineering respectively, and a six-year combined Academic and Engineering group leading to the degree of Bachelor of Arts at the end of the fourth or fifth year and that of Bachelor of Science in one of the engineering groups at the end of the sixth year. In all of the four-year groups 125 "credit hours" are required for graduation.

Agricultural Engineering. The courses in Agricultural Engineering are arranged especially for those who expect to teach the subject and for men who contemplate the management of large farms or ranches which are handled on an extensive scale, and include a comprehensive discussion of farm machinery, farm motors, rural architecture, drainage, sewage disposal, water systems, etc.

Civil Engineering. The courses in Civil Engineering deal with the subjects of railroad engineering, hydraulic engineering, irrigation, water supply, sewerage, structural design, masonry construction, etc. *Mining*

Engineering. Students expecting to become Mining Engineers will be advised as to substitutions and electives which will facilitate entrance with advanced standing to a school of mines.

Electrical Engineering. The courses in Electrical Engineering include the theory and design of electrical machinery and the industrial applications of electricity to the transmission of power, lighting, street railways, and electro-metallurgy.

Mechanical Engineering. The courses in mechanical engineering deal with problems relating to combustion and the analysis of fuels, the generation and transmission of power, and the design, construction, operation and testing of machinery of all kinds.

Six-Year Combined Academic-Engineering Course. It has been found that all the requirements of both the academic and the engineering courses may be easily met in six years, the degree of Bachelor of Arts being taken at the end of the fourth or fifth year and that of Bachelor of Science in one of the Engineering groups at the end of the sixth.

GRADUATE WORK IN ENGINEERING

Graduate work in engineering may be taken by any student who has had preparation in mathematics and science equivalent to that required of undergraduates in engineering, but candidates for the advanced degrees in engineering must, in addition, possess technical preparation equivalent to that required in the undergraduate courses. Graduate work consists of special laboratory investigations, of advanced engineering design or of the collection and reduction of existing data relating to some specific engineering topic. So far as possible such work is arranged to suit the needs of the individual student.

For one full year of resident graduate work with an acceptable thesis covering some phase of the work undertaken, there will be granted the degree of Master of Science in Agricultural, Civil, Electrical or Mechanical Engineering, depending upon the particular line of work pursued.

For three full years of resident graduate work in Engineering there will be granted upon the presentation and publication of a suitable thesis the degree of Doctor of Philosophy.

The degrees of Agricultural Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon graduates of the University of Nebraska of not less than five years' standing, who have

previously received the degree of B. Sc. in Engineering, and who have been in responsible charge of work and done meritorious service in the practice of their professions. At the time of registering for such degree the candidate will present a detailed statement of his preparation, work and experience together with an acceptable topic for a thesis. Not less than one year thereafter, during which time he shall have studied and worked under the general supervision of the head of the department in which he expects to take his degree, he shall submit his thesis and present himself for examination in the work done under the supervision mentioned above. If the thesis and examination prove satisfactory he will be recommended for the degree. In no case will a professional degree be conferred *in absentia*. The rules of the Graduate College apply to all graduate work and students taking the same must matriculate in that college.

ORDER OF COURSES IN FOUR-YEAR ENGINEERING GROUPS

To avoid conflict in the time schedules of students and to secure the proper sequence in studies, it is necessary that the engineering courses be taken in the following prescribed order. *In no case should this order be departed from without consultation with the head of the engineering department chiefly concerned.* (See also "Adult Special Students.")

FIRST YEAR OF ALL FOUR-YEAR ENGINEERING GROUPS

FIRST SEMESTER	Credit Hours
Mathematics (Algebra and Plane Trigonometry) 1.....	5
Physics (Mechanics of Solids and Fluids) 1.....	3
Rhetoric and English Composition 1.....	2
Applied Mechanics (Mechanical Drawing) 1.....	3
* Mechanical Engineering (Elementary Wood Work) 1.....	3
Military Drill A1	1
	<hr/> 17

SECOND SEMESTER	
Mathematics (Analytical Geometry and Calculus) 2.....	5
Physics (Heat and Sound) 2.....	3
Rhetoric and English Composition 2.....	2
Applied Mechanics (Descriptive Geometry) 2.....	3
* Mechanical Engineering (Pattern-making, Foundry Work) 2, 2a....	3
Military Drill, A2	1
	<hr/> 17

AGRICULTURAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER	
Mathematics (Analytical Geometry and Calculus) 3.....	5
Chemistry (Qualitative Analysis) 1.....	2
Physics (Electricity) 3.....	2
Applied Mechanics (Mechanism) 3.....	3
Agricultural Engineering (Farm Machinery) 1.....	2
Military Drill AA1.....	1
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* In the Agricultural Engineering group, Agricultural Engineering 9 is taken in place of Mechanical Engineering 1, and Agricultural Engineering 10 in place of Mechanical Engineering 2 and 2a.

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	Credit Hours
SECOND YEAR—SECOND SEMESTER	
Mathematics (Calculus) 4	5
Chemistry (Qualitative Analysis) 2	2
Agricultural Engineering (Elementary Farm Motors) 2	2
Applied Mechanics (Theoretical and Applied) 14	3
Civil Engineering (Surveying) 5	2
Civil Engineering (Surveying Field Work) 5a	2
Military Drill AA2	1
	<hr/> 17

THIRD YEAR—FIRST SEMESTER

Agricultural Engineering (Rural Architecture) 3	3
Agronomy (Soils) 7	2
Agronomy (Soil Physics) 9	2
Animal Husbandry (Management of the Herd) 11	2
Mechanical Engineering (Steam Engineering) 10	4
Civil Engineering (Road, Streets and Pavements) 21	2
	<hr/> 15

THIRD YEAR—SECOND SEMESTER

Agricultural Engineering (Farm Drainage and Rural Highways) 4	3
Dairy Husbandry (General Dairying)	2
Mechanical Engineering (Laboratory) 16	3
Civil Engineering (Hydraulics) 11	2
Civil Engineering (Elementary Structural Design) 18	2
	<hr/> 12

FOURTH YEAR—FIRST SEMESTER

Geology (Engineering Geology) 25	2
Agricultural Engineering (Advanced Farm Machinery) 11	2
Applied Mechanics (Testing Road Materials) 25	2
Political Economy or History	2
Agricultural Engineering (Domestic Engineering) 15	3
Electrical Engineering (Electric Power) 3	2
Farm Management 3	3
	<hr/> 16

FOURTH YEAR—SECOND SEMESTER

	Credit Hours
Agricultural Engineering (Advanced Farm Motors) 12.....	2
Civil Engineering (Irrigation Engineering) 12.....	3
Political Economy or History.....	2
Agricultural Engineering (Domestic Engineering Lab.) 16.....	2
Electrical Engineering (Laboratory) 8a.....	2
Thesis or Electives	5

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ARCHITECTURAL ENGINEERING GROUP

A course in architecture will be formulated, and instruction in the subjects of the first and second years of the same will be offered in 1913-14.

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Field Work) 5a.....	2
Chemistry (Qualitative Analysis) 1.....	2
Fine Arts (Charcoal and Pencil).....	1
Applied Mechanics (Applied Descriptive Geometry) 23.....	2
Military Drill, AA1.....	1

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SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4.....	5
Chemistry (Qualitative Analysis) 2.....	2
Physics (Electricity and Light) 4.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Political Economy 1	3
Fine Arts (Pen and Ink).....	1
Military Drill, AA2	1

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THIRD YEAR—FIRST SEMESTER

Fine Arts (Cathedral Architecture) 9.....	2
Applied Mechanics (Mechanics of Materials) 15.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Applied Mechanics (Specifications and Working Drawings) 27.....	4
Electrical Engineering (Electric Power) 3.....	2

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THIRD YEAR—SECOND SEMESTER

Credit
Hours

Fine Arts (Modern Architecture) 10.....	2
Electrical Engineering (Laboratory) 8a.....	2
Applied Mechanics (Specifications and Working Drawings) 28.....	4
Civil Engineering (Hydraulics) 11.....	2
Civil Engineering (Stresses in Framed Structures) 16.....	4
	<hr/>
	14

FOURTH YEAR—FIRST SEMESTER

Applied Mechanics (Cement and Concrete Testing) 17.....	2
Mechanical Engineering (Heating and Ventilation of Buildings) 19....	2
Mechanical Engineering (Steam Boilers) 11.....	2
Civil Engineering (Design of Framed Structures) 15.....	3
Civil Engineering (Reinforced Concrete) 17.....	3
Electrical Engineering (Electric Lighting) 17.....	2
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	14

FOURTH YEAR—SECOND SEMESTER

Chemistry (Technical and Metallurgical) 23.....	2
Applied Mechanics (Materials of Construction) 18.....	2
Civil Engineering (Masonry Construction) 22.....	4
Mechanical Engineering (Building Sanitation) 14.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Elective	1
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	14

CIVIL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
Military Drill AA1.....	1
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	17

THE COLLEGE OF ENGINEERING

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SECOND YEAR—SECOND SEMESTER

	Credit Hours
Mathematics (Calculus) 4.....	5
Physics (Electricity and Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Civil Engineering (Surveying) 6.....	2
Civil Engineering (Surveying Field Work) 6a.....	2
Military Drill AA2.....	1
	<hr/>
	17

THIRD YEAR—FIRST SEMESTER

Electrical Engineering (Electric Power) 3.....	2
Applied Mechanics (Mechanics of Materials) 15.....	3
Applied Mechanics (Cement and Concrete Testing) 17.....	2
Civil Engineering (Hydraulics) 11.....	2
Chemistry (Technical and Metallurgical) 23.....	2
Electives	4
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	15

THIRD YEAR—SECOND SEMESTER

Civil Engineering (Masonry Construction) 22.....	4
Civil Engineering (Framed Structures) 16.....	4
Applied Mechanics (Materials of Construction) 18.....	2
Electrical Engineering (Laboratory) 8a.....	2
Mechanical Engineering (Power Laboratory) 16, or.....	3
Mechanical Engineering (Experimental Hydraulics) 18.....	(2)
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	14 or 15

FOURTH YEAR—FIRST SEMESTER

Civil Engineering (Design of Framed Structures) 15.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Civil Engineering (Engineering Economics) 25.....	2
Romance Language (Spanish) 31, or approved electives.....	5
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	14

	Credit Hours
FOURTH YEAR—SECOND SEMESTER	
Civil Engineering (Advanced Theory of Structures) 20, or.....	3
Civil Engineering (Hydraulic Engineering) 24, or.....	(3)
Civil Engineering (Railway Location) 10.....	(3)
Civil Engineering (Engineering Economics) 26.....	2
Romance Language (Spanish) 32, or approved electives.....	5
Electives	4 or 3
	<hr/> 14 or 13

ELECTRICAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Mechanical Engineering (Forge Work) 3.....	2
Military Drill AA1.....	1
	<hr/> 15

SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4.....	5
Physics (Electricity and Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Physics (Problems in Electricity) 5.....	2
Military Drill AA2.....	1
	<hr/> 15

THIRD YEAR—FIRST SEMESTER

Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Electrical Engineering (Dynamios) 1.....	4
Physics (Electrical Measurements) 6.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
	<hr/> 17

THE COLLEGE OF ENGINEERING

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THIRD YEAR—SECOND SEMESTER

Credit
Hours

Applied Mechanics (Machine Design) 6.....	3
Electrical Engineering (Dynamors) 2.....	3
Chemistry (Technical) 23	2
Electrical Engineering (Electrical Laboratory) 8.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
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	17

FOURTH YEAR—FIRST SEMESTER

Electrical Engineering (Laboratory) 9.....	2
Electrical Engineering (Alternating Currents) 5.....	5
Electrical Engineering (Technical Reports) 15.....	1
* Electives	6
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	14

FOURTH YEAR—SECOND SEMESTER

Electrical Engineering (Alternating Currents) 6.....	3
Electrical Engineering (Laboratory) 10.....	2
* Electives	8
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	13

MECHANICAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Mechanical Engineering (Forge Work) 3.....	2
Mechanical Engineering (Advanced Foundry Work) 3a.....	1
Military Drill AA1.....	1
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	16

* Of the electives, at least 6 hours must be taken from those offered by the Electrical Engineering department and listed in the departmental statement.

SECOND YEAR—SECOND SEMESTER		Credit Hours
Mathematics (Calculus) 4	5	
Physics (Electricity and Light) 4.....	2	
Chemistry (Qualitative Analysis) 2	2	
Applied Mechanics (Theoretical and Applied) 14.....	3	
Mechanical Engineering (Machine Tool Work) 4.....	2	
Military Drill AA2.....	1	
	<hr/>	15

THIRD YEAR—FIRST SEMESTER

Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Civil Engineering (Theoretical Hydraulics) 11.....	2
Electrical Engineering (Electric Power) 3.....	2
Mechanical Engineering (Fuel Testing Laboratory) 15.....	2
Mechanical Engineering (Machine Construction) 5.....	3
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	15

THIRD YEAR—SECOND SEMESTER

Applied Mechanics (Machine Design) 6.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Mechanical Engineering (Power Laboratory) 16.....	3
Chemistry (Technical) 23	2
Electrical Engineering (Electric Power) 4	2
Civil Engineering (Stresses in Framed Structures) 18	2
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	16

FOURTH YEAR—FIRST SEMESTER

Mechanical Engineering (Steam Boilers) 11.....	2
Mechanical Engineering (Heating and Ventilation) 19 or approved elective	2
Mechanical Engineering (Hydraulic Motors) 31	3
Mechanical Engineering (Thermodynamics) 13	3
Mechanical Engineering (Power Laboratory) 17	2
Electives	2
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	15

FOURTH YEAR—SECOND SEMESTER

Credit
Hours

Mechanical Engineering (Gas Engineering) 22 or approved elective.....	3
Mechanical Engineering (Power Plant Design) 20	2
Mechanical Engineering (Power Transmission) 24	2
Electrical Engineering (Laboratory) 8a	2
Thesis, Electives	5
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	14

ORDER OF COURSES IN SIX-YEAR COMBINED ACADEMIC- ENGINEERING COURSE

	FIRST YEAR		Semester	
			1st	2d
Mathematics (Algebra and Plane Trigonometry, Analytical Geometry and Calculus) 1, 2	5	5		
The Classics or Modern Language	5	5		
Rhetoric and English Composition 1, 2	2	2		
Applied Mechanics (Mechanical Drawing, Descriptive Geometry) 1, 2	3	3		
Applied Mechanics (Free-Hand Drawing, Applied Descriptive Geometry) 24, 23	1	1		
Military Drill A1, A2.....	1	1		
			<hr/>	<hr/>
			17	17

SECOND YEAR

Mathematics (Analytical Geometry, Calculus) 3, 4.....	5	5		
Modern Language or English	5	5		
Physics (Mechanics, Heat and Sound) 1, 2	3	3		
* Mechanical Engineering (Wood, Pattern and Foundry Work) 1, 2, 2a	3	3		
Military Drill AA1, AA2.....	1	1		
			<hr/>	<hr/>
			17	17

THIRD YEAR

Applied Mechanics (Mechanism, Analytical Mechanics) 3, 14.....	3	3		
History	3	3		
Biology	3	3		
Chemistry (Qualitative Analysis) 1, 2	2	2		
Physics (Electricity, Magnetism and Light) 3, 4	2	2		
Electives	3	3		
			<hr/>	<hr/>
			16	16

* In the Agricultural Engineering Group, Agricultural Engineering 9 and 10 are substituted for Mechanical Engineering 1, 2 and 2a.

FOURTH YEAR

AGRICULTURAL ENGINEERING.

First Semester—Agronomy 7, 9, 4 hours; Ag. Eng. 1, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; Eng. Geology 25, 2 hrs.; Civil Eng. 5, 5a, 4 hrs. 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; Ag. Eng. 2, 2 hrs.; Mech. Eng. 10, 4 hrs.; Dairy Hus. 2, 4 hrs.; elective, 2 hrs.... 15

CIVIL ENGINEERING.

First Semester—Chem. 23, 2 hrs.; Civil Eng. 5, 5a, 4 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 3, 3a, 3 hrs. 15

Second Semester—Civil Eng. 6, 6a, 4 hrs.; Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 18, 2 hrs.; Mech. Eng. 4, 10, 6 hrs..... 15

ELECTRICAL ENGINEERING.

First Semester—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr..... 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4, 10, 6 hrs.; Physics 5, 2 hrs.; elective, 1 hr.... 15

MECHANICAL ENGINEERING.

First Semester—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr..... 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4, 10, 6 hrs.; elective, 3 hrs..... 15

FIFTH YEAR

AGRICULTURAL ENGINEERING.

First Semester—Ag. Eng. 3, 11, 5 hrs.; Agronomy 3, 2 hrs.; Civil Eng. 11, 2 hrs.; American History 9 or Geography 1, 2 hrs.; App. Mech. 17, 2 hrs.; Elect. Eng. 3, 2 hrs..... 15

Second Semester—Ag. Eng. 12, 14, 4 hrs.; Mech. Eng. 16, 3 hrs.; Elect. Eng. 4, 8, 4 hrs.; American History 10 or Geography 2, 2 hrs.; Horticulture 6, 2 hrs..... 15

CIVIL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; App. Mech. 17, 2 hrs.; Civil Eng. 11, 17, 5 hrs.; elective, 3 hrs. 15

Second Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 8, 2 hrs.; Civil Eng. 16, 22, 8 hrs.; Mech. Eng. 18, 2 hrs..... 15

ELECTRICAL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 1, 4 hrs.; Physics 6, 3 hrs.; Civil Eng. 5, 5a, 4 hrs.; elective, 1 hr. 15

Second Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 2, 8, 5 hrs.; Meeh. Eng. 16, 3 hrs.; elective, 4 hrs. 15

MECHANICAL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; Civil Eng. 11, 2 hrs.; Meeh. Eng. 5, 11, 7 hrs.; elective, 1 hr. 15

Second Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 4, 2 hrs.; Meeh. Eng. 16, 22, 24, 8 hrs.; elective, 2 hrs. 15

SIXTH YEAR

AGRICULTURAL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Ag. Eng. 15, 2 hrs.; App. Mech. 15, 3 hrs.; Meeh. Eng. 31, 3 hrs.; Thesis or electives, 3 hrs. 14

Second Semester—Philosophy or Economics, 3 hrs.; Ag. Eng. 4, 16, 5 hrs.; Civil Eng. 12, 3 hrs.; Thesis or elective, 3 hrs. 14

CIVIL ENGINEERING.

First Semester—Civil Eng. 15, 25, 5 hrs.; Meeh. Eng. 16, 3 hrs.; Rom. Lang. 31, or elective, 5 hrs.; elective, 1 hr. 14

Second Semester—Civil Eng. 10, or Civil Eng. 20, or Civil Eng. 24, 3 hrs.; Civil Eng. 26, 2 hrs.; Rom. Lang. 32, or elective, 5 hrs.; Thesis or elective, 4 hrs. 14

ELECTRICAL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 5, 9, 15, 8 hrs.; elective, 3 hrs. 14

Second Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 6, 10, 5 hrs.; Thesis or elective, 6 hrs.; elective, 2 hrs. 14

MECHANICAL ENGINEERING.

First Semester—Philosophy or Economics, 3 hrs.; Meeh. Eng. 13, 17, 19, 31, 11 hrs. 14

Second Semester—Philosophy or Economics, 3 hrs.; Meeh. Eng. 20, 2 hrs.; Elect. Eng. 8, 2 hrs.; Thesis or elective, 4 hrs.; elective, 3 hrs. 14

Total number of hours required for each six-year group. 188

COURSES OF INSTRUCTION

AGRICULTURAL ENGINEERING

Head Professor Chase, Assistant Professor Seaton, Adjunct Professor Baer,
Mr. Wood, Mr. Moore.

PRIMARILY FOR UNDERGRADUATES

1. **Farm Machinery**—The practical study of all lines of agricultural implements, tillage, seeding, harvesting, threshing, and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester. Chase, Seaton

2. **Farm Motors**—The practical study of farm motors, the horse, wind-mill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. Prerequisite: Mathematics 1, Physics 1 and 2. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester. Chase, Seaton

9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construction. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit. Baer, ———

10. **Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbitting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit. Moore

FOR UNDERGRADUATES AND GRADUATES

3. **Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. Prerequisite: Mathematics 1. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester. Chase, Wood

4. **Farm Drainage and Rural Highways**—A study of farm surveying, government surveying, drainage, estimates, laying out drainage systems, earth highways, construction and reconstruction, haulage, and highway laws. This course will be divided into two divisions, the engineering students handling large drainage propositions as well as some farm drainage, while the agricultural students will be given work in farm surveying, farm

drainage and a study of highways. One hour attendance. Two hours preparation. Six hours laboratory period. Three hours credit. Second semester. Wood

7. Research Work in Rural Architecture, Farm Drainage and Rural Highways—The wide range of these subjects offers a great field for original investigation; drainage, water supplies, heating, fencing, building materials, sewerage, road construction, etc. Prerequisite: Courses 3 and 4. Six to fifteen hours laboratory or reading. Two to five hours credit.

Chase, Wood

8. Research Work in Farm Machinery, Farm Motors and Farm Equipment—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm machinery and farm motors. Prerequisite: Courses 1 and 2. Six to fifteen hours laboratory or reading. Two to five hours credit. Chase, Seaton

11. Advanced Farm Machinery—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine, etc. Prerequisite: Course 1. Six hours laboratory. Two hours credit. First semester. Seaton

12. Advanced Farm Motors—Complete tests of farm motors, both in the field and laboratory. Prerequisite: Course 2. Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit. Seaton

13. Automobiles, Theory and Practice—A study of automobiles and motor truck engines, ignition systems, carburetors, transmissions and differentials and the care and use of such machines. Two hours recitation. Four hours preparation. Three hours laboratory. Three hours credit. First semester. Seaton

15. Domestic Engineering—Studies in illumination and illuminating materials, freezing and heating materials, ventilating systems, water systems, sewerage and sewage disposal. Prerequisite: Physics 1 and 2, Chemistry 1 and 2. Six hours preparation. Three hours credit. Chase

16. Domestic Engineering Laboratory—Practice in plumbing, testing of fuels, heating systems, illuminating systems, ventilating systems, pumping systems, etc. Prerequisite: Course 15. Six hours laboratory. Two hours credit.

APPLIED MECHANICS AND MACHINE DESIGN

Head Professor Chatburn, Associate Professor Slaymaker, Assistant Professor Rasmusen, Assistant Professor Mickey

PRIMARILY FOR UNDERGRADUATES

1. **Mechanical Drawing**—One hour attendance and eight hours drawing a week in lettering, free-hand sketching, geometrical construction and projection; working drawings of machine parts. Three hours credit. First semester. Rasmusen

2. **Descriptive Geometry**—One hour attendance and six hours drawing a week, comprising, (1) text-book work on the solution of problems relating to geometrical magnitudes in space and their representations by drawings; (2) application of principles to working drawings. Prerequisite: Course 1 or experience in drawing. Two hours preparation. Three hours credit. Second semester. Rasmusen

3. **Mechanism**—Two class-room periods and three hours drawing a week. Motions and forms of various mechanisms occurring in machines, manner of supporting and guiding the parts, independent of strength, and the design of gear teeth. Prerequisite: Courses 1 and 2. Four hours preparation. Three hours credit. First semester. Slaymaker

9. **A Short Course in Mechanical Drawing**—Designed for students in Forestry. Free-hand lettering, the use of instruments and curve tracing, preparatory to map making. Six hours attendance and drawing. Two hours credit. First semester. Rasmusen

20. **Timber Physics**—An elementary course in applied mechanics with especial reference to the physical properties of timber. Illustrated in the laboratory by the testing and study of the strength of various timbers in tension, compression, cross-bending, shear, etc. For students in forestry. Prerequisite: Mathematics 1, Physics 1, and Botany 34. One hour attendance. One hour laboratory. Two hours preparation. Two hours credit. Second semester. Chatburn, Mickey

FOR UNDERGRADUATES AND GRADUATES

5. **Machine Design**—Elementary design of shafting and shaft couplings, pulleys and fly-wheel, power-screws, bearings and guides. Nine hours attendance and drawing. Prerequisite: Courses 1, 2, 3 and 14. Three hours credit. First semester. Slaymaker

6. **Machine Design**—Each student makes a number of complete designs, studies constructive details, makes calculations to determine strength of parts and estimates cost. Nine hours attendance and drawing. Prerequisite: Courses 1, 2, 3, and 5. Three hours credit. Second semester.

Slaymaker

8. **Steam-Engine Design**—Working from an assumed indicator card, each student designs the principal dimensions of a high-speed automatic cut-off engine and the details of assigned parts. Reports upon each particular design. Six hours drawing a week. Prerequisite: Courses 1, 2, 3, and 5. Two hours credit. Second semester.

Slaymaker

13. **Stereotomy**—Drawing and laboratory. Six hours drawing. Two hours credit. First and second semesters.

Chatburn

14. **Theoretical and Applied Mechanics**—Principles of kinematics, statics and kinetics. Prerequisite: Mathematics 3. Three hours attendance. Six hours preparation. Three hours credit. First and second semesters.

Chatburn, Mickey

15. **Mechanics of Materials**—Resistance of materials, and mechanics of beams, columns, shafts, etc.; laboratory experiments. Prerequisite: Course 14. Two hours attendance. Three hours laboratory. Four hours preparation. Three hours credit. First and second semesters.

Chatburn, Mickey

17. **Cement and Concrete Testing**—Classification, composition, manufacture, inspection, sampling and specifications. Practical testing of cement, mortars, concretes, and other materials of construction. Prerequisite: Course 14. One hour attendance. Three hours laboratory. Two hours preparation. Two hours credit. First and second semesters.

Mickey

18. **Materials of Construction**—Manufacture and general properties. Mechanical properties of materials as revealed by actual tests. Comparison of tests reported by other laboratories. Continuation of tests begun in course 17. One hour attendance. Three hours laboratory. Two hours preparation. Two hours credit. Second semester.

Chatburn, Mickey

22. **Graphic Statics**—Elements of graphic statics applied to engineering construction. Prerequisite: Course 14. One hour attendance. Six hours drawing. Two hours preparation. Three hours credit. Second semester.

Chatburn

23. **Applied Descriptive Geometry**—Advanced course in mechanical drawing. Practical applications of the principles of descriptive geometry.

Shades, shadows and perspective; tinting and stippling. Prerequisite: Courses 1 and 2. Three, six or nine hours drawing a week. One, two or three hours credit. Rasmusen

24. **Free-Hand Drawing**—Designed for engineering students. Three hours drawing. One hour credit. First and second semesters. Hayden

25. **Road Materials Testing**—Examination, classification, and testing of road and pavement materials including rock, gravel, sand, clay, earth, paving brick, wood blocks, stone blocks, oils, asphalts, and tars. The testing of cement concrete, bituminous concrete, and sheet asphalt. The building of a miniature road or pavement model illustrating the successive steps of construction, as well as the finished road or pavement. Prerequisite or parallel: Courses 15, 17, and C. E. 21. One hour attendance and two hours preparation. Three hours laboratory. Two hours credit. Additional credit may be earned by special arrangement. First and second semesters. Mickey

26. **Advanced Mechanics**—Open to students who have completed course 14 or Mathematics 4. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Chatburn

27. **Specifications and Working Drawings**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; detailing on a large scale various parts, such as, walls, roofs, cornices, doors, windows, stairs, etc. Plans, elevations and details of small dwelling house; specifications and estimate of cost. Four hours lecture. Four hours preparation. Six hours drawing. Four hours credit. First semester. Slaymaker

28. **Specifications and Working Drawings**—Foundations of stone, brick, concrete, and piles; kinds of masonry and external finish; brick-masonry, its materials and bonds; terra-cotta design, etc. Detailing of columns, beams, girders, and footings; joints and connections; use of architectural handbooks. Two hours lecture. Four hours preparation. Six hours drawing. Four hours credit. Second semester. Slaymaker

CIVIL ENGINEERING

Head Professor Stout, Head Professor Chatburn, Associate Professor Bridgman, Assistant Professor Riddervold, Mr. Kingsland

FOR UNDERGRADUATES AND GRADUATES

5. **Surveying**—To be accompanied by course 5a. Prerequisite: Trigonometry. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bridgman, Kingsland

5a. Surveying Field Work—To accompany course 5. Six hours field. Two hours credit. First semester. Bridgman, Kingsland

6. Surveying—5 continued. Second semester.

6a. Surveying Field Work—5a continued. Second semester.

8. Railway Surveying—Field and office methods employed in surveys for locating and constructing railroads. Prerequisite: Courses 5 and 5a. One hour attendance. Six hours field. Two hours preparation. Three hours credit. Second semester. Bridgman

9. Railway Construction—Principles and practice. Roadbed, tunnels, minor structures. Contractors' organization and equipment. Cost data and analysis; estimates. Prerequisite: Course 8 or equivalent experience in actual work. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bridgman

10. Economic Theory of Railway Location—Scientific balancing of cost, receipts, and operating expenses. Open to fourth-year students. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Bridgman

11. Hydraulics—Prerequisite: Calculus and Applied Mechanics 14. Two hours attendance. Four hours preparation. Two hours credit. Both semesters. Stout

12. Irrigation Engineering—Grade, cross-section and capacity of canals; surveys; designs of structures; source of water supply; analysis of hydrographic data; return and seepage waters; irrigation by pumping; organization; legal and economic principles. Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Stout

13. Water Supply of Cities—Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

14. Cleaning and Sewerage of Cities—Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Riddervold

15. Design of Framed Structures—Prerequisite: Course 16. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

16. Stress in Framed Structures—Prerequisite: Applied Mechanics 15. Four hours attendance. Eight hours preparation. Four hours credit. Second semester. Riddervold

17. Reinforced Concrete—Theory and practice in design and construction of concrete reinforced by steel. Prerequisite: Applied Mechanics 15. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

18. Structural Design—Adapted to the needs of students in Mechanical and Electrical Engineering. Prerequisite: Applied Mechanics 15. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Riddervold

20. Advanced Theory of Structures—Arches, cantilevers, continuous girders, statically indeterminate stresses. Prerequisite: Course 15. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Riddervold

21. Roads, Streets and Pavements—Lectures, assigned readings, and reports. Two hours attendance. Four hours preparation. Two hours credit. First semester. Chatburn

22. Masonry Construction—Prerequisite: Applied Mechanics 14. Four hours attendance. Eight hours preparation. Four hours credit. Second semester. Stout

24. Hydraulic Engineering—Hydraulic development for purposes of drainage, power, and transportation. Flood protection. Collection and analysis of hydrographic data and the principles involved in the design of reservoirs, canals, levees, and structures. Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Stout

25. Engineering Economics—Conducted on the seminar plan. Two hours attendance. Four hours preparation. Two hours credit. First semester. Stout, Bridgman, Riddervold

26. Engineering Economics—25 continued. Second semester.

30. Exploratory Surveying—Designed for students of forestry. Prerequisite: Course 5. One hour attendance. Six hours field work. Two hours preparation. Three hours credit. Second semester. Bridgman

ELECTRICAL ENGINEERING

Head Professor Ferguson, Associate Professor Hollister, Mr. Goddard

PRIMARILY FOR UNDERGRADUATES

1. Direct Currents—Elements of electrical engineering. Theory and practice of direct-current circuits and apparatus. Prerequisite: Math. 4,

Phys. 3. Four hours attendance. Eight hours preparation. Four hours credit. First semester. Ferguson, Goddard

2. **Direct Currents**—Continuation of course 1, including principles of design and practice therein. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Ferguson, Goddard

3. **Electrical Power**—Elementary principles, industrial applications. For students in the Architectural, Agricultural, Civil and Mechanical Engineering groups. Prerequisite: Math. 4, Phys. 3. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hollister

4. **Electrical Power**—Continuation of course 3, including principles of alternating currents. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hollister

5. **Alternating Currents**—Theory and practice of alternating-current circuits and apparatus. Prerequisite: Courses 1 and 2. Five hours attendance. Ten hours preparation. Five hours credit. First semester. Ferguson

6. **Alternating Currents**—Continuation of course 5, including power systems, etc. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Hollister

8. **Electrical Laboratory**—Practice in operating and testing direct-current generators, motors and subsidiary apparatus. Prerequisite: Course 1. Three hours laboratory. Three hours preparation. Two hours credit. Second semester. Goddard

8a. **Electrical Laboratory**—Similar to course 8 but adapted to the needs of the agricultural, architectural, civil and mechanical engineers. Prerequisite: Course 3. Three hours laboratory. Three hours preparation. Two hours credit. First and second semesters. Goddard

9. **Electrical Laboratory**—Continuation of course 8. Three hours laboratory. Three hours preparation. Two hours credit. First semester. Hollister, Goddard

9a. **Electrical Laboratory**—Elective offered to accompany course 9. Telephone practice, mercury-arc rectifier, illumination, etc. Three hours laboratory. One hour credit. First semester. Hollister, Goddard

10. **Electrical Laboratory**—Continuation of course 9. Advanced laboratory practice including use of oscillograph. Three hours laboratory. Three hours preparation. Two hours credit. Second semester. Hollister, Goddard

10a. **Electrical Laboratory**—Elective offered to accompany course 10. Storage batteries, high potentials, etc. Three hours laboratory. One hour credit. Second semester. Hollister, Goddard

FOR GRADUATES AND UNDERGRADUATES

15. **Technical Reports**—Preparation and presentation of reports upon technical subjects. Prerequisite: Courses 1, 2 and 8 and registration in 5. One hour attendance. Two hours preparation. One hour credit. First semester. Hollister

16. **Technical Reports**—Continuation of course 15. Elective. One hour attendance. Two hours preparation. One hour credit. Second semester. Hollister

17. **Electric Lighting and Illumination**—Lighting apparatus, illumination and illuminating engineering. Prerequisite: For Electrical Engineers—course 1 and Phys. 4; for Architectural Engineers—Phys. 4 and E. E. course 3. Two hours attendance. Four hours preparation. Two hours credit. First semester. Goddard

18. **Electro-Chemical Engineering**—Elements of electro-chemistry, with special emphasis placed upon some of the commercially most important processes as metal winning, furnaces, storage batteries, etc. Prerequisite: Courses 1 and 8. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hollister

19. **Telephone Engineering**—Line construction, instruments, switchboards, systems, operation, etc. Prerequisite: Courses 1 and 8 and registration in 5. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hollister

20. **Electric Railways**—Preliminary estimates and economics, construction, equipment and operation. Prerequisite: Courses 1 and 8. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Ferguson

22. **Electrical Design**—Alternate-current apparatus, transformers, synchronous generators. Prerequisite: Courses 5 and 9. Three hours lectures. Six hours calculation and drafting. Three hours credit. Second semester. Ferguson

28. **Thesis**—The election of thesis work is allowed only to men well prepared to benefit therefrom. In order to be approved, the subject chosen for investigation must demand scientific treatment. It is advised

as November 15 preceding. A maximum total credit of four hours may that the work be laid out to extend through two semesters. Registration in the second semester must be preceded by approval of subject as early be received. Ferguson, Hollister

31. Engineering Mathematics—Engineering problems demanding a knowledge of algebra, trigonometry, calculus, vectors, mechanics, electrical phenomena, alternating-current circuits, etc. Prerequisite: Math. 4, Phys. 5 and registration in E. E. courses 5 and 9. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Ferguson, Hollister

PRIMARILY FOR GRADUATES

51. Alternating-Currents—Transients, electric waves, etc. First or second semester. Three hours credit. Ferguson

61. Electrical Design—Advanced electrical apparatus design. Three hours credit. First or second semester. Ferguson

91. Electrical Laboratory—Advanced investigations. Hours and credit to be arranged. First semester. Ferguson, Hollister

92. Electrical Laboratory—Continuation of course 91. Hours and credit to be arranged. Second semester. Ferguson, Hollister

MECHANICAL ENGINEERING

Head Professor Hoffman, Associate Professor Dean, Associate Professor Raber, Adjunct Professor Bunting, Mr. Payne, Mr. Grennan

PRIMARILY FOR UNDERGRADUATES

1. Wood Work—Bench work in wood work and wood-turning; lectures on wood-working tools and machinery and the properties of timber. One hour attendance. Eight hours laboratory. Three hours credit. First semester. Bunting

2 and 2a. Pattern-Making and Elementary Foundry Work—Construction of patterns and core-boxes; lectures on pattern-making, foundry work and the metallurgy of cast iron. Prerequisite: Course 1. One hour attendance. Eight hours laboratory. Three hours credit. Second semester.

Bunting, Grennan

3. Iron and Steel Forging—Practice in forging, welding and tempering; lectures on forging tools and machinery and the metallurgy of iron and steel. One hour attendance. Five hours laboratory. Two hours credit. First semester. Grennan

3a. Advanced Foundry Work—2a continued. Prerequisite: Course 2a. Three hours laboratory. One hour credit. First semester. Taken with course 3. Grennan

4. Machine Work in Metals—Exercises in the use of the engine lathe, planer, shaper, milling machine and the art of cutting metals; lectures on machine tools. One hour attendance. Five hours laboratory. Two hours credit. First and second semesters. Payne

5. Machine Construction—4 continued. Prerequisite: Course 4. One hour attendance. Eight hours laboratory. Three hours credit. First and second semesters. Payne

FOR GRADUATES AND UNDERGRADUATES

10. Steam Engineering—Forms and mechanism of steam machinery. Economy of operation and adaptability to a given service; elementary theory of heat engines. Differential and integral calculus and applied mechanics required. Four hours attendance. Eight hours preparation. Four hours credit. First and second semesters. Hoffman, Raber

11. Steam Boilers—Design and construction of steam boilers, furnaces, settings; their safety and economy of operation. Prerequisite: Course 10. Two hours attendance, occasional drawing. Four hours preparation. Two hours credit. First semester. Hoffman

13. Thermodynamics—Advanced study of the thermodynamics of gases and vapors, the applications of the science to heat engines, injectors, refrigerating machinery, steam turbines, etc. Prerequisite: Course 10. Three hours attendance. Six hours preparation. Three hours credit. First semester. Raber

14. Building Sanitation—Principles of the design of plumbing systems for air, gas and water. Sanitary necessity of sewerage. Discussion of sewage disposal and drainage systems. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hoffman

15. Fuel Testing Laboratory—Proximate analyses of coal; determination of heating value of coal, gas, and oil; the testing of lubricants and friction. Six hours laboratory. Two hours credit. First semester. Raber

16. Mechanical Engineering Laboratory—Calibration of instruments, indicator practice, valve setting, efficiency tests of engines and boilers, injectors, pumps, gas engines. The measurement of power. Course 10 to be a prerequisite or taken at the same time. One hour attendance. Eight hours laboratory. Three hours credit. Second semester. Dean

17. Mechanical Engineering Laboratory—Complete tests of simple and compound Corliss engines, air compressors, gas engines, steam pumps, and refrigerating machinery. Prerequisite: Course 16. One hour attendance. Eight hours laboratory. Three hours credit. First semester. Dean

18. Experimental Hydraulics—Experiments on the flow of water through orifices and nozzles and over weirs; the testing of hydraulic motors and pumps. Prerequisite: Civil Engineering 11. Six hours laboratory. Two hours credit. Second semester. Dean

19. Heating and Ventilation—Theory and design of the various systems for heating and ventilating buildings, including hot air, hot water, steam and the plenum and vacuum systems, and central station heating. Prerequisite: Course 10. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hoffman

20. Steam Power Plant Design—The design of a complete steam power plant and the formulation of specifications therefor. Prerequisites: Courses 10 and 11. Occasional lectures. Six hours drawing. Two hours credit. Second semester. Raber

22. Gas Power Engineering—The theory and design of gas, gasoline and oil engines; gas producer practice; the combustion of gaseous fuels. Prerequisite: Course 10. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Raber

24. Power Transmission—Transmission of power by shafting, belts, ropes, water, compressed air, gas. Course 10 to be a prerequisite or to be taken at the same time. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hoffman

31. Hydraulic Motors and Pumping Machinery—Theory of water-wheels, turbines, pressure engines and pumps. Prerequisite: Civil Engineering 11. Three hours attendance. Six hours preparation. Three hours credit. First semester. Hoffman

PRIMARILY FOR GRADUATES

27. Advanced Laboratory Investigations—Special investigations of problems relating to steam engines and boilers, gas engines, etc. Nine or twelve hours laboratory. Three or four hours credit. First semester.

Hoffman, Dean

28. Advanced Laboratory Investigations—27 continued. Nine or twelve hours laboratory. Three or four hours credit. Second semester.

Hoffman, Dean

AMERICAN HISTORY

American History 10. **Public Lands Policy and Laws of the United States**—Development of the successive “West” of American History; governmental policy and laws as to the disposition of lands to settlers in each “West”; rise of distinction between agricultural, mineral, grazing and forest lands; state public lands and land policies; the conservation movement. Text, reference and research work. Three hours attendance. Three hours credit. Second semester. Given only in alternate years. *Given in 1913-14.* Persinger

CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Mr. Wilson, Miss ———

Analytical Chemistry

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman, Wilson, ———

2. **Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Borrowman, Wilson, ———

1 and 2 (combined). **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Dales, Wilson, ———

Technical and Metallurgical Chemistry

23. **Engineering Chemistry**—Lectures and readings on the sources, manufacture, composition (with special reference to efficiency) and behavior under various conditions, of the materials of engineering—iron and steel and other metallic materials, wood, stone, clay, mortars, and cements, fuels, water, lubricants, paints and varnishes, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters. Borrowman

23a. **Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. May be taken

with or after course 23. Students may select work according to interest and needs and arrange with instructor for readings and laboratory hours. Prerequisite: Courses 1 and 2. Hours credit dependent on amount and quality of work done. Borrowman

ENGINEERING LAW

Engineering Law—A course in business law with special reference to the needs of engineers. Essential elements of a contract; who may contract. Corporate bodies. Bids and bidders. Employment of engineer or architect. Property rights in designs and inventions. Liability of engineer or architect. Engineer or architect as an expert witness. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

GEOGRAPHY AND CONSERVATION

Head Professor Condra, Associate Professor Bengtson

1. **The Land**—A lecture and laboratory course in practical physiography. Some of the topics discussed are: The common minerals, rocks, structures and relief features; weathering; land forms produced by the erosion of plains, plateaus and mountain folds; flood plains, deltas, and alluvial fans; erosion and deposits of glaciers; work of the atmosphere. The lectures are fully illustrated by lantern, maps, models and specimens. Students carrying this course are advised to take also one or both of the related courses, 21 and 22. Two hours attendance. Four hours laboratory, library and preparation. Two hours credit. First semester.

Condra, Bengtson

2. **Geography of North America**—A summary study of the political divisions, relief and structure of the continent, and a full treatment of each of the seventeen soil regions as to the structure, physiographic history, topography, drainage, resources, industries, settlement and development. The Great Plains Region is emphasized. The course is suited to all students who wish a knowledge of the geography of our country. Lectures are illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester.

Condra, Bengtson

4. **The Atmosphere**—A course in practical meteorology. Elements of weather and climate studied in detail. Students are taught the use and construction of weather maps and climatic charts, forecasting and use and care of meteorological instruments. Open to all. Two hours credit. First and second semesters. Loveland

5. **Industrial Geography**—A close study of the mineral fuels, forest and water resources and industries of the United States. Detailed studies are made of the regions, processes and products of the following industries: coal, coke, petroleum, iron and steel, lumber and pulp wood. Lectures fully illustrated by slides, maps and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. First semester. Condra, Bengtson

19. **Soil Survey**—A course in detailed mapping of soils and land forms. Exemplifies methods used in state and federal surveys. Work done on Saturdays and vacations. See instructor before registering. Two hours credit. Given each semester. Condra

20. **Soil Survey**—Course 19 continued.

21. **Field Work**—Field study of quarries, clay pits, gravel pits, sand dredges and rock out-crops, use of barometer, camera and drawing materials as employed on surveys. Interpretation of structures and topographies. One or two hours credit. Trips on Saturdays. First and second semesters. Bengtson

22. **Field Work**—Course 21 continued.

MATHEMATICS

Head Professor Davis, Professor Engberg, other members of departmental staff

COURSES

A. **Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Four hours credit. First and second semesters.

1. **Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

2. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

3. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

4. **Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

4a. **Calculus**—4 continued. Two hours attendance. Two hours credit. Second semester. Davis

5. **Differential Equations**—Prerequisite: Course 4. Three hours attendance. Three hours credit. First semester. Candy

6. **Differential Equations**—5 continued. Second semester.

7. **Theory of Probabilities**—Three hours attendance. Three hours credit. Second semester. Engberg

PHYSICS

Head Professor Skinner, Professor Moore, Professor Almy, Associate Professor Tuckerman, Mr. McComb, Mr. Spencer

General and Experimental Physics

1. **General and Experimental Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments. Solution of problems. Four hours laboratory. Three hours credit. First semester.

Almy, McComb, Spencer

2. **General and Experimental Physics**—Heat and sound. As in 1. Second semester.

3. **General and Experimental Physics**—Electricity. Two hours lecture with illustrative experiments. Three hours laboratory. Two or three hours credit. First semester.

Almy, Moore, Spencer

4. **General and Experimental Physics**—Electricity and light. As in 3. Second semester.

5. **Problems in Electricity**—Prerequisite: Course 3. Two hours attendance. Two hours credit. Second semester. Tuckerman

6. **Electrical Measurements**—Prerequisite: Courses 3 and 5. Eight hours laboratory. Three hours credit. First semester. Tuckerman

POLITICAL ECONOMY

Political Economy 1. **Elementary Course**—A general survey of the industrial organization of society; development of natural resources; the division of labor; production, exchange and distribution of wealth; utility and value, wages, interest, rent and profits, money and credit, rise and fall of prices and the cost of living, transportation, protection and free trade, trusts and trade union, state and municipal ownership, socialism. Three hours attendance. Three hours credit. First and second semesters.

Le Rossignol, Virtue, Stephens, England

9. Economic History of the United States—This course deals with the main lines of our industrial development from the colonial to the middle of the Nineteenth Century. The chief topics discussed are colonial industries and commerce; the economics of the Revolution; the settlement of the West; the growth of fundamental industries; commerce and shipping; commercial policy, including the early history of the tariff; financial history, including monetary and banking arrangements; history of manufactures; labor systems and organizations. Two hours attendance. Two hours credit. First semester. Virtue

10. Economic History of the United States—A continuation of course 9, showing the economic development of the United States from the middle of the Nineteenth Century to the present time. Two hours attendance. Two hours credit. Second semester. Virtue

35. Work and Wages—History of the labor movement in Europe and America; wages in the Nineteenth Century; theory of wages; methods of remuneration; the minimum wage; hours and conditions of labor; conciliation and arbitration; employer's liability, insurance and pensions; workingmen in politics; relation of socialism to the labor movement. Three hours attendance. Three hours credit. First semester. Le Rossignol

36. Methods of Industrial Peace—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organization of employers and laborers, their aims and methods; interests of the general public; gains and losses through strikes; trade agreements; conciliation; voluntary and compulsory arbitration; co-operation and profit-sharing; political activities of workingmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester. Le Rossignol

NOTE—For description of courses in: Biology (Botany, Zoology), Classics or Modern Language, English Literature, Military Science and Tactics, Philosophy, Physical Education, Rhetoric, and Spanish, see "Courses of Instruction," in the College of Arts and Sciences; for Agronomy, Dairy Husbandry, and Horticulture, see the College of Agriculture.

The College of Agriculture

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture and Director of Experiment Station. Agricultural Hall 203.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University.

LAWRENCE BRUNER, B. Sc., Head Professor of Entomology and State Entomologist. Plant Industry Hall 208.

FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural Chemistry. Experiment Station Hall.

EDWIN MEAD WILCOX, Ph. D., Head Professor of Agricultural Botany. Plant Industry Hall 304.

LEON WILSON CHASE, B. Sc. in M. E., Head Professor of Agricultural Engineering. Machinery Hall.

GEORGE EVERT CONDRA, Ph. D., Head Professor of Geography and Conservation. Director State Conservation and Soil Survey. University Hall 2.

CHARLES WILLIAM PUGSLEY, B. Sc., Superintendent of Agricultural Extension and Head Professor of Farm Management. Agricultural Hall 204.

JULIUS HERMAN FRANDBSEN, M. S. A., Head Professor of Dairy Husbandry. Dairy Hall.

HARRY ELWYN BRADFORD, A. B., Principal of the Agricultural High School and Professor of Secondary Agricultural Education. Agricultural Hall 207.

RALPH KENNETH BLISS, B. S. A., Professor of Animal Husbandry. Agricultural Hall 103.

ROLLINS ADAMS EMERSON, B. Sc., Professor of Horticulture. Plant Industry Hall 105.

- ALICE MARIE LOOMIS, A. M., Head Professor of Home Economics
Home Economics Hall.
- EVERETT NEWTON BOWMAN, First Lieutenant 4th Infantry, U. S. A.
Commandant of Cadets and Professor of Military Science. Grant
Memorial Hall.
- JAMES HARRISON GAIN, M. D. C., Professor of Animal Pathology.
Veterinary Hall.
- WALTER JEAN MORRILL, M. F., Professor of Forestry. Nebraska
Hall 105.
- WILLIAM PATTON SNYDER, M. S., Superintendent of North Platte
Experimental Substation.
- THEODORE ALEXANDER KIESSELBACH, A. M., Professor of Experimental
Agronomy. Plant Industry Hall 202.
- PERCY BOUSFIELD BARKER, A. M., Professor of Instructional
Agronomy. Experiment Station Hall.
- WILLIAM WESLEY BURR, B. Sc., Soils, Associate in Crops. North
Platte.
- ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- MYRON HARMON SWENK, A. M., Associate Professor of Entomology
and Assistant State Entomologist. Plant Industry Hall 206.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteor-
ology and Section Director United States Weather Bureau. Brace
Laboratory.
- HOWARD JOHN GRAMLICH, B. Sc., Assistant Superintendent of Agri-
cultural Extension. Associate Professor of Animal Husbandry
(Horses). Agricultural Hall 204.
- JULIA EMMELINE LOUGHRIDGE, A. B., Assistant Principal of the
Agricultural High School and Adjunct Professor of Mathematics.
Agricultural Hall 207.
- LAZELLE BRANTLEY STURDEVANT, A. M., M. D., Associate Pro-
fessor of Animal Pathology. Veterinary Hall.
- FRED JOHNSON, B. Sc., D. V. S., Superintendent of Serum Plant.
- CHARLES BOSS LEE, B. Sc., Assistant Professor of Animal Husbandry.
Agricultural Hall 104.
- ELLIS RAIL, B. Sc. A., Assistant Professor of Animal Husbandry.
Agricultural Hall 104.

- ERWIN HOPT, B. Sc., Assistant Professor of Agronomy (Crops). Stock Judging Pavilion.
- JOHN RALPH COOPER, B. Sc., Assistant Professor of Horticulture. Plant Industry Hall 102.
- NELS AUGUST BENGTSON, A. M., Associate Professor of Geography and Conservation. University Hall 1.
- HORACE CLYDE FILLEY, A. M., Assistant Professor of Farm Management. Agricultural Hall.
- ROBERT SAMUEL TRUMBULL, A. M., Adjunct Professor of Agricultural Chemistry. Experiment Station Hall.
- GEORGE KONRAD KARL LINK, A. M., Assistant Professor of Agricultural Botany. Plant Industry Hall 204.
- * WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry. Nebraska Hall 105.
- HELEN LEE DAVIS, A. B., B. Sc., Adjunct Professor of Home Economics. Home Economics Hall.
- ANNA MARGRETA OLSEN, B. S., Adjunct Professor of Home Economics. Home Economics Hall.
- FLORA BULLOCK, A. M., Adjunct Professor of English.
- ALVA ALDUS BAER, A. B., Adjunct Professor of Agricultural Engineering.
- LAURENCE FROYD SEATON, B. Sc. in M. E., Assistant Professor of Agricultural Engineering. Machinery Hall.
- GEORGE CLEVELAND WHITE, A. M., Assistant Professor of Dairy Husbandry. Dairy Hall.
- HORACE JAMES YOUNG, B. Sc. in Agr., Assistant Professor of Agronomy. Experiment Station Hall.
- IVAN DALEY WOOD, B. Sc. in A. E., Instructor in Agricultural Engineering. Machinery Hall.
- CARRIE BELLE RAYMOND, Director of Music.
- ORPHA ELLEN NESBIT, A. B., Instructor in Home Economics. Home Economics Hall.
- MARY VIRGINIA ZIMMER, A. B., Instructor in Mathematics. Agricultural Hall.

* Resigned.

- GRACE RICHARDS, A. B., Instructor in Home Economics. Home Economics Hall.
- MARY-ELLEN BROWN, B. S., Instructor in Home Economics. Home Economics Hall.
- MABEL MAUD HEDGES, A. B., Instructor in Home Economics. Home Economics Hall.
- GLAIDETH GAINEVERE DENNY, A. B., Instructor in German and History. Agricultural Hall.
- EDITH VIOLET OHLSEN, B. Sc., Instructor in Home Economics. Home Economics Hall.
- BERNA ANNA MISKELL, B. Sc., Instructor in Home Economics. Home Economics Hall.
- ROBERT LEO MOORE, Instructor in Agricultural Engineering. Machinery Hall.
- CHAUNCEY WILLIAM SMITH, Instructor in Physics, Agricultural High School. Agricultural Hall.
- ROY WESLEY EATON, Instructor in Normal Training, Agricultural High School.
- EDGAR ALEXANDER MARKHAM, Assistant in Dairy Husbandry.
- ESTHER MOSHER BURRITT, A. B., Assistant in English. Agricultural Hall.
- JAMES COWAN, M. E., Superintendent Experimental Substation, Valentine.
- FRITZ KNORR, B. Sc., Superintendent Experimental Substation, Scotts bluff.
- SENATOR WILLIS PERIN, Farm Superintendent.
- HOMER LEROY NYE, Foreman Demonstration Farm, Culbertson.

Fellows, Scholars, and Graduate Assistants

- GUY RAYMOND McDOLE, A. M., Assistant in Agricultural Chemistry.
- CLAYTON ORD ROST, A. B., Assistant in Agricultural Chemistry.
- JOHN ANDERSON RATCLIFF, A. B., Assistant in Experimental Agronomy.
- MORRIS JOSLIN BLISH, B. Sc., Laboratory Assistant in Agricultural Chemistry, Agricultural High School.

ARTHUR JAY LUDDEN, A. M., Assistant in Physics.

RALPH WARD DAWSON, B. Sc., Assistant in Entomology.

EDWIN LOVEJOY CURRIER, B. Sc., Assistant in Agronomy.

THOMAS WESLEY MOSELEY, B. Sc., Assistant in Agricultural Botany.

JAMES LLOYD THOMAS, B. Sc., Assistant in Agronomy.

HARVEY ELMER VASEY, Assistant in Agricultural Botany.

JOSEPH BENJAMIN KUSKA, Assistant in Agronomy.

ARTHUR GREY GEORGE, Assistant in Agronomy.

Standing Committees of the Faculty

Course of Study—Professor Bradford (chairman), Professors Bruner, Wilcox, Chase, Frandsen, Morrill, Loomis, Barker.

Farmers' Institutes—Professor Pugsley (chairman), The Dean, Professors Emerson, Kiesselbach.

Schedule of Classes—Professor Chase (chairman), Professors Bradford Loughridge, the Registrar.

Advanced Standing—The Chancellor (chairman), the Dean, and the Inspector of High Schools

PURPOSE OF THE COLLEGE OF AGRICULTURE

The College of Agriculture was established by an act of the legislature of 1909, reorganizing the colleges within the University. The purpose of this college is (1) to provide thorough instruction in the technical agricultural sciences (including Forestry), (2) to aid in the promotion of agriculture through its secondary Schools of Agriculture, its Experiment Stations, and its Agricultural Extension work, and (3) to promote household arts through its department of Home Economics.

GROUPS OF STUDY

The **Agricultural Science Group** meets the needs of those students who wish to prepare themselves for the pursuit of scientific investigation along some line in agriculture, such as agricultural botany, agricultural chemistry, agronomy, animal husbandry, animal pathology, dairy husbandry, entomology, forestry, horticulture, and other technical subjects related thereto. This group should also appeal to those who desire to prepare themselves for teaching in high schools or in agricultural colleges and who desire agricultural training to meet the demands of the schools requiring that instruction be given in agriculture. As a course in general education for students who expect to follow business pursuits or to continue still further the study of some technical agricultural subject, this course is offered as a suitable foundation.

The **Agricultural Practice Group** meets the needs of those students who come to the college for one or two years with expectation of returning to the farm at the expiration of that time and who wish to get a large amount of agriculture in the early part of the course.

The work of the first two years correlates with that of the latter years so that the student can complete his course for a degree in four years.

This group is not intended for those who wish to pursue scientific research. Such persons should take the agricultural science group.

To those who desire an education which will put them in touch with the leading industrial activities of the state and fit them to become leaders in the community this course will prove efficient.

Forestry Group. This group is designed to prepare men for either general or technical work in forestry. The sequence of the courses during the first three years is arranged to give a basis for a broad education and at the same time to give a good scientific foundation leading to the more

technical courses in forestry. While the group is intended primarily for foresters, many of the courses may be taken by students in general collegiate work or by students specializing in other lines, who desire a knowledge of some particular line of forestry.

The **Home Economics Group** leads to the degree of Bachelor of Science in Home Economics. Besides those subjects which have to do especially with the home, it includes studies in science, language, history, and other branches affording a good general education. This department is housed in Home Economics Hall, situated on the University Farm. The hall is a three-story brick building, equipped to provide practical instruction in cooking, sewing, and house management.

FACILITIES FOR INSTRUCTION

To illustrate properly the work in the various departments in agriculture, the college is provided with a farm of 320 acres which is used for experimental purposes and to illustrate methods in farm practice, showing the effect of rotations and methods of treatment on the physical and chemical properties of the soil and on its productiveness. The department of Horticulture maintains an extensive orchard and garden for demonstrating horticultural methods and practices. The departments of Animal Husbandry and Dairy Husbandry keep extensive herds for instruction in types of farm animals. The agricultural plant, aside from lands, consists of eight main buildings and several barns and accessory buildings to complete the work and efficiency of the plant. Agricultural Hall is used for administration, library, and general class rooms. Experiment Station Hall furnishes laboratories for Soils, Physics, and Agricultural Chemistry. The Judging Pavilion furnishes stock judging laboratories and grain judging laboratories, with exceptional facilities for work. The Agricultural Engineering buildings furnish laboratories in forge work, wood work, and farm machinery. Plant Industry Hall furnishes class and laboratory facilities for Horticulture, Entomology, Agricultural Botany and Experimental Agronomy. Dairy Hall furnishes laboratories for instruction in buttermaking and cheesemaking, supplemented by a herd of exceptional efficiency to demonstrate the best dairy practice. Home Economics Hall furnishes laboratories for instruction in cooking and in household art. All of the technical departments giving instruction have excellent laboratory facilities and depend upon the laboratory method to give definiteness and efficiency to their instruction.

ADMISSION TO THE COLLEGE OF AGRICULTURE

Entrance Credits. For admission to the Freshman year of the College of Agriculture the candidate must present 30 entrance credits or "credit points" from an accredited secondary school, of which he must be a graduate. Conditional admission will be permitted on a minimum of 28 credits or "points" from an accredited secondary school, of which the student must be a graduate. Graduates from the University Preparatory Course in the Agricultural High School are admitted to full Freshmen standing without examination. Students who have graduated from an accredited three-year high school with less than 28 "credit points" by registering in the Agricultural High School may, upon the satisfactory completion of one year's work, offer his combined credits in the two schools for entrance into the Freshman year of the Agricultural College.

A student admitted conditionally to the College with but 28 "credit points" must remove these conditions at the earliest opportunity. A degree will not be granted until such conditions are removed.

The following table indicates the entrance requirements to the College of Agriculture from accredited high schools. A graduate of a fully accredited high school or academy upon presenting a certificate is admitted without examination to any class for which he is fully prepared:

Required Subjects—(18 points).		Points
English		4
History (European) (a)		2
Language (Foreign) (b)		6
Mathematics		4
Science (Laboratory) (c)		2
Elective Subjects—(In addition to above).		
Subjects taught in an approved manner in an accredited secondary school		12
Total.....		30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: A third year of Mathematics or a second year of laboratory science may be offered in place of a third year of Language.
- (c) Science: Both Physics and Chemistry are desirable for entrance to this College.

An "entrance credit" or "credit point" means the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least

eighteen weeks. In laboratory courses, a "credit point" means three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks.

Entrance From the Agricultural High School. All students who have completed the University Preparatory course in the Agricultural High School are admitted to the College of Agriculture without examination. Young women graduating in Home Economics from the Agricultural High School are admitted to the Home Economics group of the College of Agriculture.

Entrance From Non-Accredited Schools and Colleges. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University should forward his credentials to the Registrar and be prepared to take such examinations as may be prescribed. If such credentials do not clearly show the number of weeks' study and the number of recitations a week, together with the time devoted to laboratory work, if any, the prospective students should apply to the Registrar for blank credential slips. These should be properly filled out and returned, when he will be informed at once whether his credentials are or are not acceptable.

Adult Special Students. Students over twenty-one years of age, not candidates for degrees, may register in the College of Agriculture without conforming to the entrance requirements. The admission of adult special students is permitted after consultation with and upon the recommendation of the Dean. Such students must pay all necessary fees. Upon fulfilling the entrance requirements, adult special students may register as regular students, and become candidates for the degree.

Registration at the University Armory on the City Campus. Registration in the College of Agriculture takes place during the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a registration fee of \$3.00 is charged a student who, without good reason, fails to register within the days set aside for this purpose.* A like fee is charged for the re-registration when made necessary by the student's fault; any change whatever in a registration

* Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage, and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session.

once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student is allowed to make such a change without written permission to the Registrar from the Dean of each college concerned.

No student is allowed to change his group or drop any study for which he has been regularly registered without written permission from the Dean of the college. No regular student is permitted to register for less than twelve (12) hours without special permission from the Dean. No first year student may register for more than 16 credit hours except by written consent of the Dean, and then for a maximum of 17 hours. Second to fourth year students may register for 18 hours credit if they have completed 16 hours with an average grade of 80 per cent or above, the previous semester. No first year student may register for more than one 1-hour course (in addition to drill or Physical Education) in any one semester, and no second to fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit will be granted for studies pursued without registration.

FEES AND EXPENSES

Fees. All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University. The schedule of fees in the College of Agriculture is as follows:

Matriculation (paid only on first registration).....	\$5.00
Being a statutory fee, this cannot be refunded except when collected through error.	
Non-resident (charged to each person not a resident of the state), each semester	15.00
Incidental, each semester	3.00
Library (charged to each student who does not pay a laboratory fee), each semester	1.00
Special registration (for late registration or re-registration).....	3.00
Special examination, each course	1.00
Diploma, first degree	5.00

Diploma, advanced degree.....	\$10.00
Additional Diploma fee if degree is taken <i>in absentia</i>	10.00
Certificate	1.00

LABORATORY FEES

Agricultural Chemistry—Course 1, \$3; 2, \$4; 3, \$1; 4, \$2.	
Agricultural Engineering—Courses 1, 2, 11, \$3; 3, 5, 6, \$1; 4, 18, \$2; 9, 10, 12, 16, \$4; 13, \$5.	
Botany—Courses 1, 2, 21, 22, \$2; 13, 14, \$1; 6, 19, 20, \$3.	
Chemistry—Courses A, B, 1, 2, Da, 3a, \$5; 14, \$8; 3, \$10.	
Civil Engineering—Courses 5a, 30, \$3.	
Dairy Husbandry—Courses 2, 3, 6, \$3.	
Entomology—Courses 1, 2, 5, 6, 7, 8, \$2; 3, 4, 9, 10, 11, 12, 13, \$1.	
Forestry—Courses 3, 4, 5, \$2.	
Geography—Courses 1, 2, 6, \$1.	
Geology—Course 1, \$1.	
Home Economics—Courses 1, 2, 7, 8, 11, 12, 15, 16, \$2; 3, 4, \$3; 5, 6, \$5.	
Physics—Courses 11, 12, \$4.	
Physiology—Courses 1, 2, \$5.	

Expenses. In Lincoln, board and lodging may be secured in private families from \$3.50 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and The Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment. Uniforms costing about \$15 are required for military drill.

REQUIREMENTS FOR GRADUATION

University Credits. For the degree of Bachelor of Science, 125 University "credit hours" are required.* No student is recommended for a degree who is not within 18 hours of this requirement at the beginning of his last semester.

* A course receives one "credit hour" for each one-hour recitation or lecture and two-hours preparation or laboratory period it demands for each of the eighteen weeks of a semester.

Required Subjects. Each candidate for the degree of Bachelor of Science in the College of Agriculture must complete the following subjects:

For the Agricultural Science Group:	Hours
Modern Language (French or German) or Ancient Language for women	10
* Biology (Botany, Entomology or Zoology).....	10
Physical Science (Chemistry or Physics).....	8
Biological, Physical, or exact Science.....	10
English (Rhetoric 1, 2, and 6 hours of Rhetoric or English literature)	10
History, Political Science, Philosophy or Economics.....	6
Military Science for men or Physical Training for women.....	4
† Agricultural Subjects	40
Total.....	98
 For the Agricultural Practice Group:	 Hours
Chemistry	10
Botany, Entomology, or Zoology, (two required).....	12
Physics or Rhetoric	6
English, (Rhetoric and English)	10
Modern Language, English Literature, History, or Sociology.....	14
Political Economy	5
Drill	4
Meteorology	2
Agriculture (in major subjects 16 hours).....	40
Total.....	103
 For the Forestry Group, for students registering 1913 and after:	
Chemistry and Physics	13
Mathematics	15
Biological Science—Botany, Entomology, and Zoology.....	27
Forestry	27
Modern Language	13
Rhetoric and English Literature	12
Total.....	107

* In Home Economics Course, Physiology and Bacteriology are included in this group.

† This requirement does not hold for the Home Economics Group.

Science Requirement. No student will be granted a degree from the College of Agriculture who has completed less than 60 hours of science, which may include Agriculture or Home Economics. Students selecting the Agricultural group will be required to complete 40 hours of agricultural subjects, to be taken in not less than three departments. Students selecting the Forestry group will be required to complete 40 hours of Botany and Forestry. Students selecting the Home Economics group will be required to complete 30 hours of Home Economics.

Military Drill Required. Four hours of military science (courses A1, A2, AA1, AA2) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man must fulfill this requirement in freshman and sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

Major Subjects. Not later than the beginning of his second year each student in the College of Agriculture must select some one department of the college in which he will take a major of not less than 16 hours nor more than 35 hours.

The University Teachers' Certificate is granted only (1), to those who maintain an average of at least 80 per cent in their undergraduate work, and (2), show special fitness for teaching. Special requirements of this certificate are:

1. The candidate must hold the Bachelor's or Master's degree from the University.
2. Completion of Philosophy 1 and 2.
3. Completion of 15 hours in Education as follows:

	Hours
Education 1 and 2 (History of Education).....	6
Education 4 (Child Study)	3
Electives in Education	2
Home Economics 13 and 14 (accepted in place of Education, Theory and Practice 2 hours, Special Methods 2 hours).....	4
Total.....	15

4. A major of not less than 20 hours and a minor of not less than 12 hours may be taken in the subjects of Domestic Science and Domestic Art.

The City State Teachers' Certificate for Supervisors in Home Economics. The requirements for this certificate are the same as above except that 12 hours instead of 15 hours are required in Education, and instead of 6 hours of History of Education 1 and 2, only three hours of this course or its equivalent in Educational Classics are required.

Advisers. At the time of his first registration each Freshman student in the College of Agriculture is assigned by the Dean to some member of the Faculty, who becomes his adviser during the Freshman year. When, at the beginning of his second year, a major subject is chosen, the head of the department in which the major work is taken becomes the adviser of the student until the time of his graduation. The dean of the college constitutes a head adviser for each student within the college. The Adviser to Women is a special adviser to all women students in the college.

Absence or Withdrawal. A leave of absence for a short time may be granted a student by the Dean. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

ORDER OF COURSES IN THE GROUPS OF STUDY

THE AGRICULTURAL SCIENCE GROUP

FIRST YEAR	1st Semester	2d Semester
	Hours	Hours
Biology (Botany,† Entomology or Zoology‡) (A and S)	3	3
Chemistry 1, 2, (A and S) ‡.....	2	2
French or German (A and S) ‡.....	5	5
Rhetoric 1, 2 (A and S) ‡.....	2	2
Military Drill	1	1

* Agricultural Subjects—

First semester: Choice of Animal Husbandry 1 (Judging) and 3 (Study of Breeds), Agronomy 1 (Forage Crops), Horticulture 2 (Orcharding), Dairy 1 (Milk Production), Agricultural Engineering 9 (Wood Work) or Geography 1.....3 or 4

Second Semester: Choice of Animal Husbandry 2 (Judging), Agronomy 2a and 2b (Cereal Crops), Horticulture 4 (Vegetable Gardening), Dairy 2 (Butter Making), Agricultural Engineering 10 (Forge Work) or Geography 2.....

2, 3, or 4

16 or 17 15 to 17

SECOND YEAR

* Agricultural Subjects	3	3
French or German (if four points foreign language have not been offered for entrance on admission to the college), or Natural, Physical or Exact Science or Agricultural Subjects	5	5

* The "Agricultural Subjects" include Agricultural Botany, Agricultural Chemistry, Agricultural Engineering, Agricultural Geography, Agronomy, Animal Husbandry, Dairy Husbandry, Forestry, Geography, Horticulture, Economic Entomology, Agricultural Education.

† Graduates of the Agricultural High School who have completed, in Botany, 9 hours' work in class and practice, shall take Botany 3 and 4; others shall take courses 1 and 2.

‡ Required courses not given in the College of Agriculture are marked with the initials of the College in which they are offered; e. g., (A and S) indicates that the subject is offered in the College of Arts and Sciences, (E) refers to the College of Engineering.

	1st Semester Hours	2d Semester Hours
Rhetoric 5 and 6 or English Literature (A and S)*.....	3	3
Chemistry 3 or Physics 11 and 12, Biology (Botany, Entomology or Zoology) (A and S)*.....	3 or 4	4
Military Drill	1	1
	17 or 16	16
THIRD YEAR		
† Agricultural Subjects	7	7
Electives	6	5
History, Political Economy or Philosophy (A and S)*..	3	3
	16	15
FOURTH YEAR		
† Agricultural Subjects	7	7
Electives	8	8
	15	15

AGRICULTURAL PRACTICE GROUP

Offered at the University Farm

This group is offered for students who can attend the College for only one or two years and for those who expect to return to the farm rather than enter teaching or research work.

	FIRST YEAR	
Required Subjects—	1st Semester Hours	2d Semester Hours
Chemistry A or 1 and B or 2.....	3 or 2	3 or 2
Agricultural Botany 5 and 6 or Economic Entomology 3 and 4.....	3	3
Rhetoric 1 and 2	2	2
Drill	1	1
‡ Elective Subjects, to make 16 hours—		
Animal Husbandry 1 (Judging).....	2	
Animal Husbandry 3 (Breeds) and 4 (Feeding)....	2	3

* See foot-note (§) on p. 302.

† See foot-note (*) on p. 302.

‡ Students taking this group must choose elective subjects in three Departments, with a view of continuing studies in at least one of these Departments throughout the second year as a basis for the selection of a Major subject.

* Elective Subjects, to make 16 hours—	1st Semester Hours	2d Semester Hours
Agronomy 1 (Forage Crops), and 2a and 2b (Cereals)	3	
Horticulture 2 (Orcharding) and 4 (Vegetable Gardening)	3	3
Dairying 1 (Milk Production) and 2 (Butter Mak- ing)	3	3
Agricultural Engineering 9 (Wood Work) and 10 (Forge Work)	3	3

No person can enter upon the second year of this group unless he has lived for one year upon a farm since he was fourteen years of age or has actual experience in some special line of farm or garden operations.

Required Subjects—	SECOND YEAR	1st Semester Hours	2d Semester Hours
Organic and Agricultural Chemistry (new courses) ..		3	3
Physics 11 and 12 or Rhetoric 5 and 6		3	3
Drill		1	1
† Elective Subjects, to make 16 hours—			
Agronomy (Soils) 7 and 9 and 8 and 10		4	4
Farm Management 3 and 4		3	3
Agricultural Engineering 1 (Farm Machinery) and 2 (Farm Motors)		2	2
Animal Husbandry 5 (Feeding) and 2 (Judging) ...		2	2
Animal Pathology 2		3	
Dairying 3 (Milk Testing) and 4 (Judging)		2	1
Horticulture 3 (Apple Judging) and 6 (Ornamental Gardening)		2	2
Meteorology (Geography 4)		2	
Lands (Geography 1)			2

All subjects offered at the University Farm, except Physics 11 and 12.

	THIRD YEAR	1st Semester Hours	2d Semester Hours
Political Economy 1 (Principles of Political Economy) and 10 (Economic History of the United States) or 14 (Economics of Agriculture)		3	2 or 3

* See foot-note (‡) on p. 303.

† Students registering in a new Department at the beginning of the second year should be registered in the subjects offered by that Department in the first year.

	1st Semester Hours	2d Semester Hours
Rhetoric 5 and 6 or English Literature.....	3	3
History or Sociology	3	3
Agricultural Botany, Entomology, or Zoology.....	3	3
Agriculture (in major subject)	3 to 5	3 to 5
Electives to make 16 hours.....	1 or more	1 or more

FOURTH YEAR

Modern Language, English Literature, or Sociology (two or three subjects)	7	7
Agriculture to complete major subject.....		
Electives to complete 125 hours for graduation.....	8	7

FORESTRY GROUP

FIRST YEAR

Forestry 1, 2	1	1
German 1, 2, or French 1, 2, or Spanish 31, 32*.....	5	5
Botany 1, 2	3	3
Chemistry 1, 2*	2	2
Rhetoric 1, 2*	2	2
Geography 1, 2	2	2
Military Drill	1	1
	16	16

SECOND YEAR

Forestry 3, 4	2	3
German 3 or French 3 or Spanish 33*.....	5 or 3	
Botany 13; 14	2	2
Botany 6		3
Mathematics 1	5	
Physics 11, 12*	3	3
Geography 4		2
Lettering and Drawing †		2
Military Drill	1	1
	16	16

* Given in the College of Arts and Sciences.

† Given in the Engineering College.

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	THIRD YEAR	1st Semester Hours	2d Semester Hours
Timber Physics *		2
Forestry 7, 8	2	2
Forestry 5	2	
Botany 19, 20	3	3
Surveying 5, 5a, 30 *	4	3
Rhetoric 5, 6 †	3	3
Rhetoric 41	2	
Geology 31 †		2
		16	15
	FOURTH YEAR		
Forestry 11, 12, 12a, 12b	3	3
Forestry 14		3
Forestry 15	2	
Railway Surveying (Civil Eng. 8) *		3
Botany 21, 22	2	2
Forest Zoology 13† and Entomology 11	3	3
Geology 33 †	2	
Electives ‡	2	2
		14	16

PROFESSIONAL COURSE LEADING TO DEGREE OF MASTER OF FORESTRY

Forestry 17, 17a	.....		1
Forestry 19, 20, 20a	.....	3	3
Forestry 21, 22 (Thesis)	.....	2	2
Forestry 23, 24	.....	2	2
Forestry 25, 26	.....	2	2
Forestry 28	.....		1
Forestry 30	.....		1
Forestry 31	.....	2	
Rhetoric 13, 14	.....	3	3
Forest Mycology § (Botany 25)	.....	2	

* Given in the Engineering College.

† Given in the College of Arts and Sciences.

‡ Agronomy 7 or 9 or both are recommended. Also American History 10

§ Given in alternate years beginning 1913-1914.

HOME ECONOMICS GROUP

	FIRST YEAR	1st Semester Hours	2d Semester Hours
Home Economics 1, 2 (Sewing and Design).....	3	3	
Rhetoric 1, 2 (A and S)*	2	2	
Chemistry 1, 2 (A and S)*	2	2	
Language, Ancient or Modern (A and S)*.....	5	5	
Botany 1 and Zoology A (A and S)*.....	3	3	
Physical Training	1	1	
	<hr/>	<hr/>	
	16	16	

FIRST YEAR FOR STUDENTS WHO HAVE NO ENTRANCE CREDIT IN CHEMISTRY

Home Economics 1, 2 (Sewing and Design).....	3	3
Rhetoric 1, 2 (A and S)*	2	2
Physical Training	1	1
Chemistry Da (A and S)*.....	3	
Zoology A		3
Language (Ancient or Modern) (A and S)*.....	5	5
	<hr/>	<hr/>

SECOND YEAR

	14	14
Home Economics 3, 4 (Foods: Selection and Preparation)	3	3
Chemistry 3a (Organic) (A and S)*.....	4	
Chemistry 14 (Food and Sanitary) (A and S)*.....		5
Physiology 1, 2 (A and S)*.....	2	2
English Literature 1, 2 (A and S)*.....	3	3
Physical Training	1	1
Physical Education 9 (Emergencies—First Aid).....	1	
Entomology 10 or Elective Subject	2	
	<hr/>	<hr/>

THIRD YEAR

	16	14
Home Economics 5, 6 (Advanced Food Study and Dietetics)	3	3
Home Economics 7, 8 (Industrial Art).....	3	3
Bacteriology 2a (A and S)*		2
† Philosophy, Sociology, or Political Economy (A and S)*	3	3
Electives	7	5
	<hr/>	<hr/>
	16	16

* See third note at bottom of page 302; (E) refers to the College of Engineering.

† Philosophy 1 and 2 required of candidates for teachers' certificate. See page 300.

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FOURTH YEAR	1st Semester	2d Semester
	Hours	Hours
Home Economics 9, 10 (Household Administration).....	3	3
Education 4 (Child Study) (A and S)*.....	3	
Fine Arts 1 (A and S)*.....	2	
History	3	3
Electives	5	9
	<hr/> 16	<hr/> 15

* See third note at bottom of page 302.

COURSES OF INSTRUCTION

Students are advised to consult the heads of departments before registering.

For additional courses that may be chosen to apply as "Electives" see "Courses of Instruction" of the College of Arts and Sciences, the College of Engineering, and the Teachers College.

Courses included between brackets are not given in 1913-1914.

AGRICULTURAL BOTANY

Head Professor Wilcox, Assistant Professor Link, Assistant Moseley,
Assistant Vasey

GENERAL INFORMATION

The offices, laboratories and lecture room are located in Plant Industry Hall. For use in the instructional work the department has a very extensive collection of lantern slides, charts, and other illustrative material. An extensive pathological herbarium and collection of economic plants are being developed as rapidly as possible. The large private library of the head professor of Agricultural Botany, particularly complete in phytopathology, is available for the use of advanced students. A greenhouse has recently been arranged and specially equipped for experimental work in physiology and pathology.

A limited number of advanced students with proper training can be offered exceptional opportunities for research work in phytopathology. In some cases it is possible for such students to receive compensation for work done in connection with problems being investigated by the department.

GRADUATE WORK

The department is especially prepared to offer graduate work in phytopathology and phytophysiology. To successfully undertake research work in these subjects students should have a broad training in botany, chemistry, and zoology; should be able to read French and German and should have taken at least six hours of work in this department. Before registering students should consult the head of the department.

FOR UNDERGRADUATES AND GRADUATES

1. **Elementary Plant Pathology**—A broad survey of the development and present condition of our knowledge of plant disease. Special attention will be given to diseases having their origin in malnutrition and unfavorable chemical and physical factors. The most typical and important diseases of our leading cultivated plants will be described in some detail. The laboratory work will acquaint the student with the current technique, including the preparation and use of culture media, the establishment of pure cultures and artificial inoculation. Three hours lecture. Six hours laboratory. Three hours credit. Students are advised to take Agricultural Botany 7 and 8 before or with this course. Wilcox

2. **Elementary Plant Pathology**—1 continued. Second semester.

3. **General Plant Pathology**—Prerequisite: Agricultural Botany 1, 2. An advanced course of lectures designed to furnish such a broad working basis as to enable one to engage in original research in plant pathology. The following are some of the subjects to be discussed: The physiology and cytology of resistance and immunity, origin of parasitism, specialization, epidemics and climatic factors, etc. Two hours lecture. Four hours reading. Two hours credit. First semester. Wilcox

4. **General Plant Pathology**—3 continued. Second semester.

5. **Economic Botany**—The general principles of morphology and phylogeny are first developed as a basis for a survey of the classification, distribution, origin, and products of the economic plants of the world. Special attention is devoted to the weeds, forage plants and seed testing. Three hours lecture. Four hours laboratory. Three hours credit. First semester. Wilcox

6. **Economic Botany**—5 continued. Second semester.

7. **Plant Physiology**—A course of selected experiments supplemented by lectures, conferences and readings designed to acquaint the student with plant chemics, plant physics and the phenomena of growth and movement. Three hours lecture. Six hours laboratory. Three hours credit. First semester. Link

8. **Plant Physiology**—7 continued. Second semester.

9. **Pathological Anatomy**—A thoro study of the structures and activities of the plant cell in pathological tissues. A comprehensive study of the morphogenic influence of various unfavorable factors. Two hours lecture. Four hours laboratory. Two hours credit. First semester. Wilcox

10. **Pathological Anatomy**—9 continued. Second semester.

11. **Special Morphology of the Fungi**—The morphology, phylogeny, physiology and life history of the principal groups of the fungi. Three hours lecture. Four hours laboratory. Three hours credit. First semester
Wilcox

12. **Special Morphology of the Fungi**—11 continued. Second semester.

AGRICULTURAL HIGH SCHOOL COURSES

A. **Elementary Agricultural Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. Three hours lecture. Two hours laboratory. First semester.

B. **Elementary Agricultural Botany**—Elementary study of types of plants selected as far as possible with reference to their economic value in agriculture. Three hours lecture. Two hours laboratory. Second semester.

C. **Elementary Plant Physiology**—An elementary study of the growth, nutrition, irritability and reproduction of plants with special reference to the application of these facts to plant culture. Two hours lecture. Two hours laboratory. First semester.

D. **Elementary Plant Pathology**—An elementary study of the more common diseases of cultivated plants; the best methods of controlling these by spraying, proper methods of cultivation, use of resistant varieties, etc., will be discussed. Two hours lecture. Two hours laboratory. Second semester.

GENERAL BOTANY

Head Professor Bessey, Associate Professor Pool, Assistant Professor Walker

1. **General Botany**—Introduction to structure of plants (cells, tissues, tissue systems). General morphology, physiology, and classification of representative species, including blue-green and green algæ. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

2. **General Botany**—The general morphology, physiology and classification of representative species of brown algæ to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, Walker

13. Flowering Plants—Principles of the classification of Monocotyledons and their particular application to the grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester. Bessey, Pool

14. Flowering Plants—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in course 13. Second semester. Bessey, Pool

15. Mycology—A study of the fungi and of Mycological literature; classification; physiology, life history, parasitism, symbiosis, heteroecism, mycorrhiza, laboratory and field work. Three lectures, eight hours laboratory. Three hours credit. First semester. Pool, Walker

16. Mycology—The role of fungi and bacteria in the production of plant diseases, bacterial diseases, epidemics, physical and climatic factors, pathological technique. Three lectures, eight hours laboratory. Three hours credit. Second semester. Pool, Walker

19. Plant Physiology—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance and bodily form; turgor, secretion, waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Pool

20. Plant Physiology—Photosynthesis; the question of the manufacture and assimilation of food; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement with special reference to the influence of external factors upon these phenomena; irritability; stimulus and response; correlation; reproduction of plants; death. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Pool

21. Plant Ecology—The relation of plants to their environment; adaptation; alternation and zonation; factors of the habitat; use of ecological instruments. Two lectures, six hours laboratory. Two hours credit. First semester. Pool

22. Plant Ecology—Mostly field work, with detailed studies and accurate observations. Two lectures, six hours laboratory or field work. Two hours credit. Second semester. Pool

25. Forest Mycology—A study of the fungi which attack forest trees: the role of fungi in the decay of timber. Two lectures, six hours laboratory or field work. Two hours credit. First semester. Pool

AGRICULTURAL CHEMISTRY

Head Professor Alway, Adjunct Professor Trumbull, Mr. Blish

All courses in the department are given in Experiment Station Hall.

The work offered by the Department of Agricultural Chemistry is either research or direct preparation for research. In general only graduates, or undergraduates in their senior year, are prepared for this work, which is largely individual and the nature of which depends largely upon the student's previous work in chemistry, geology, physics and soils.

UNDERGRADUATE WORK

Courses 2, 4, 5, 6, and 8 are open to undergraduates who previously have had sufficient training. On account of the varied nature of the problems presenting themselves in agricultural chemistry students are urged to acquire as thorough a training as possible in inorganic, organic, analytical, and physical chemistry before specializing in this department. Only those whose training in pure chemistry has been thorough may hope to succeed in dealing with problems in agricultural chemistry.

GRADUATE WORK

Courses 2, 4, 5, 6, and 8 outlined below are primarily for graduates. In addition to these courses, graduate students may select problems in the chemistry of plants. The nature of the problem assigned to any particular student depends both upon his previous training and upon the lines of investigation in progress at the Experiment Station.

FOR UNDERGRADUATES AND GRADUATES

2. Analysis of Agricultural Products—A course in the quantitative analysis of grain, flour, fruit, dairy products and fodders. Prerequisite: Courses 1, 2, 3, 7, and 8 in Chemistry or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Alway

4. Analysis of Soils and Fertilizers—A course in the quantitative chemical analysis of soils and fertilizers. Prerequisite: Courses 1, 2, 3, 7, and 8 in Chemistry, or their equivalent. One hour attendance. Five hours laboratory. Two hours credit. Second semester.

Alway

5. Research in the Chemistry and Physics of Soils—The investigation in the field, in the laboratory, or in both, of some problem in soil chemistry or soil physics. Prerequisite for undergraduates: Courses 7, 8, 9, and 10 in Agronomy. Two to five hours credit. First semester.

Alway

6. Research in the Chemistry and Physics of Soils—5 continued. Second semester.

8. Chemical and Physical Properties of Soils—An advanced course on the chemical composition and physical properties of soils. This course is open to only those who have already taken courses 5 or 6 or who are taking course 6. Three hours credit. Second semester. Always

AGRICULTURAL HIGH SCHOOL COURSES

A. Elementary Agricultural Chemistry—General principles of chemistry. Special emphasis upon chemistry of agriculture. Three hours lecture. Four hours laboratory. First semester. Trumbull

B. Elementary Agricultural Chemistry—A continued. Second semester.

D. Preparatory Chemistry—For students who have had A and B and are preparing to enter the University. Two hours attendance. Four hours laboratory.

CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler, Mr. Wilson, Miss _____

D. The Non-Metallic Elements—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for course 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

May be taken as course Da with four hours laboratory work instead of seven for three hours credit instead of four, by Home Economics students only. Dales, Wilson, _____

1. Qualitative Analysis—Elementary course required of technical and scientific students. Prerequisites: A and B, D (or Da for Home Economics students only) or two credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman, Wilson, _____

2. Qualitative Analysis—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Borrowman, Wilson, _____

3. **General Organic Chemistry**—The important classes of organic compounds of the aliphatic and benzene series. Derivatives. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

May be taken as course 3a with four hours laboratory work instead of five, by Home Economics and College of Agriculture students only.

Fossler

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; evaluation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2, and 3 or 3a. Five hours lecture with demonstrations. Eight hours laboratory. Five hours credit. Second semester.

Fossler

AGRICULTURAL EDUCATION

Professor Bradford

1. **Agricultural Pedagogy**—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers of this work. Junior or senior year. First semester. Two hours attendance. Two hours credit.

Bradford

AGRICULTURAL ENGINEERING

Head Professor Chase, Assistant Professor Seaton, Adjunct Professor Baer, Mr. Wood, Mr. Moore

FOR UNDERGRADUATES

1. **Farm Machinery**—The practical study of all lines of agricultural implements, tillage, grading, seeding, harvesting, threshing and fertilizing machinery. One hour attendance. Two hours preparation. Four hours laboratory. Two hours credit. First semester.

Chase, Seaton

2. **Farm Motors**—The practical study of farm motors, the horse, wind-mill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. One hour attendance. Two hours preparation. Four hours laboratory. Two hours credit. Second semester.

Chase, Seaton

9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construction.

tion. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit. Baer

10. **Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbitting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours laboratory. Three hours credit. Moore

FOR UNDERGRADUATES AND GRADUATES

3. **Rural Architecture**—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, etc. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester. Chase, Wood

4. **Farm Drainage and Rural Highways**—A study of methods of drainage, estimates, laying out drainage systems, etc. A study of the highways of Nebraska, construction and reconstruction, haulage, and highway laws. The first half of the time of this course is given to drainage, and the second to highways. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester. Wood

5. **Wood Work and Interior Finishing**—Practice at the bench with light carpenter tools and the care of edged tools for the home. Work in the construction of furniture, painting, oiling, and finishing the same. Instruction in the planning of the home, the designing, selecting and care of the interior finish. One hour attendance. Two hours practice. One hour credit. For women only. First semester. Baer

6. **Spraying Machinery**—The designing of spraying outfits, practice with the gasoline engine, mixers and pumps and a study of nozzles. Three hours laboratory. One hour credit. First semester. Chase

13. **Automobiles, Theory and Practice**—A study of automobiles and motor truck engines, ignition systems, carburetors, transmissions, differential, and the care and use of the automobile. Two hours recitation. Four hours preparation. Three hours laboratory. Three hours credit. First semester. Seaton

18. **Wood Work and Interior Finishing**—Continuation of course 5 but with hard woods. Prerequisite: Course 5. One hour attendance. Two hours practice. One hour credit. (For women only.) Second semester. Baer

AGRICULTURAL HIGH SCHOOL COURSES

A. **Wood Work**—Practice with the care, use and adjustment of tools. Exercise in bench work. One hour attendance. Three hours laboratory. First semester. Baer

B. Wood Work—Farm building construction. Prerequisite: Course A. One hour attendance. Three hours laboratory. Second semester. Baer

C. Forge Work—Practice in forging, welding, tempering, pipe fitting, babbitting, and repairing of machinery. One hour attendance. Three hours laboratory. First semester. Moore

D. Forge Work—Continuation of course C. Prerequisite: Course C. One hour attendance. Three hours laboratory. Second semester. Moore

E. Farm Machinery—A study of all lines of agricultural implements, tillage, grading, seeding, harvesting, pumping, and fertilizing machinery. One hour attendance. Three hours laboratory. Chase, Seaton

F. Farm Motors—Continuation of course E with the addition of work with windmills, steam boilers, steam engines, gasoline engines, and traction engines. The determination of brake horse power and other tests in farm motors. One hour attendance. Three hours laboratory. Chase, Seaton

G. Rural Architecture—The laying out of farms, the study of houses, barns, granaries, sheds, fences, equipment, water systems, sewerage, heating, etc. Practice at drawing and designing. One hour attendance. Two hours designing. Wood

H. Rural Architecture—Continuation of course G. One hour attendance. Two hours designing. Wood

I. Wood Work and Finishing (For women only)—Practice with use, care, and adjustment of tools. Interior construction. Painting, oiling, and staining of woods. One hour attendance. Two hours practice. First semester. Baer

J. Wood Work and Finishing (For women only)—Continuation of course I. One hour attendance. Two hours practice. Second semester. Baer

INSTRUCTIONAL AGRONOMY

Professor Barker, Assistant Professor Hopt, Mr. Young

Students should have at least one year's work in Botany, Chemistry and Geography. Courses are offered to meet the needs of (1) those students taking general culture courses, or interested in farm operations or the management of land; (2) those fitting themselves to be agricultural teachers or investigators.

Excellent opportunities are offered for graduate students who desire to take up research work. Training in natural and physical sciences is necessary for students taking graduate work. Lines of research work are open to students of this class upon consultation with the head of the department.

1. Forage Crops Management—An elementary course in the management of common and important forage crops. Classification, distribution and adaptability of common forage plants. Methods by which good seed may be secured. Seeding, care, harvesting and best use of forage crops, including those used for pasture, studied in considerable detail. Special attention given to identification. Two hours attendance. Four hours laboratory. Three hours preparation. Three hours credit. First semester.

Hopt

2a. Cereal Crops—Classification and methods of improvement of cereal crops, their adaptability and distribution, time and methods of seeding, harvesting, and cultivating. To be taken in connection with course 2b. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Hopt

2b. Grading and Judging Grains—Laboratory practice in describing, scoring, judging and inspecting cereals by outlines and score cards. Methods of breeding to improve these cereals. To be taken in connection with course 2a. Four hours laboratory. Two hours preparation. Two hours credit. Second semester.

Hopt and Assistants

3. Forage Crop References—Assigned forage crop readings. A thorough study of Hunt's "Forage and Fiber Crops in America," also of various assigned readings in bulletins and other texts. These text studies and readings are essentially those required as supplementary work in Agronomy 1. Open only to Agricultural High School students who have completed courses A, B, C, and D and those whose record in the department are entirely satisfactory. One hour attendance. Two hours preparation. One hour credit. First semester.

Hopt

4. Cereal Crop References—Hunt's "Cereals in America," readings as required in Agronomy 2a and 2b. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Hopt

5. Advanced Field Crops—Grouping of all field crop plants in the order of their natural relationship. Origin, domestication, and evolution of field crop plants. Field crops in relation to food supply and human progress. History and evolution of field crops practice. Contemporaneous farming in the various sections of the United States. Special and minor crops in Nebraska. Special phases of field crops practice. Field crop enemies. Problems and methods in field crop teaching, breeding and experimentation. Lectures, reading and consultations. Prerequisites: Courses 1, 2a, 2b and 7. Two hours attendance. One to thirteen hours preparation. One to five hours credit. First semester.

Hopt

6. **Advanced Field Crops**—5 continued. Second semester.

7. **Soils**—This is an elementary and general course. It comprises a study of the origin, formation, classification, characteristics and properties of soils; the relation of soils to plant growth and crop production; the principles of soil management. Two hours lecture. Four hours laboratory. Four hours credit. First semester. Barker, Young and Assistants

8. **Soils**—7 continued. Second semester.

11. **Soil Management**—Principles governing the management of land, crop system, tillage, rotations, manuring, fertilizing, drainage and aeration. Prerequisite: Courses 1, 2a and 7. Two hours attendance. Four hours preparation. Two hours credit. First semester. Barker

11a. **Soil Management Laboratory**—Given in connection with 11. Treating of principles governing the management of land from the practical standpoint. Four hours attendance. Two hours preparation. Two hours credit. First semester. Barker

12. **Soils of the United States**—A brief study of each of the fourteen soil Provinces as surveyed by the Bureau of Soils. The characteristics of the various soil types of the United States as to plant production will be considered. The soils of the corn belt and Nebraska soils are especially emphasized. Prerequisites: Courses 7 and 8. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Barker

13. **Advanced Soils**—Factors influencing the productive capacity of lands. Lectures, readings, and laboratory. Credit according to work. To be arranged with head of department. Prerequisite: Courses 1, 2a, 7 and 8. First semester. Barker

14. **Advanced Soils**—13 continued. Second semester.

17. **Agricultural Examination of Soils**—A course designed to study soils in the field. Soil mapping and analysis; methods of determining their needs, their improvement and management. Prerequisites: Courses 1, 2, 7, 8, 13, 14. Four hours attendance. Two hours credit. First semester. Barker

19. **Agronomy**—Given during the Summer Session. A combined course in soils and field crops, especially prepared for those desiring to teach agriculture in secondary schools.

(a) Five lectures. Ten hours preparation. Two hours credit.

(b) It is recommended that the lecture course be accompanied by the laboratory course, which is given at the University Farm. Ten hours laboratory. Eight hours preparation. Two hours credit. Barker, Hopt

AGRICULTURAL HIGH SCHOOL COURSES

A. Crop Management—Adaptation, improvement, production and best use of the principal cereal and forage crops with special reference to Nebraska conditions. Three hours attendance. First semester. Hopt

B. Crop Management—A continued. Second semester.

C. Crop Laboratory—Must be taken with A. Identification of the plants, fruits and seeds of the more common field crops of Nebraska, including the important cereals, forage grasses and legumes. Judging and commercial grading of the cereals. Selection, care and testing which make for pure viable seed. Common field crop enemies and means of combating same. Four hours laboratory. First semester. Hopt and Assistants

D. Crop Laboratory—C continued. Must be taken with B. Second semester.

E. Advanced Crop Laboratory Practice—An optional course for students wishing to go further into field crop study than is possible in the more elementary courses A, B, C, and D. Of especial interest to men who wish to raise seed for others as well as for themselves, or who desire to grow new varieties or improved strains to meet peculiar local conditions. Two hours laboratory. First semester. Hopt

F. Advanced Crop Laboratory Practice—E continued. Second semester.

G. Soil Tillage and Farm Management—Origin, deposition and natural transportation of soils, physical and chemical constitution of soils and subsoils, size and structure of soil particles in relation to drainage, aeration, water storage and capillarity. Two hours attendance. First semester. Barker

H. Soil Tillage and Farm Management—G continued. Second semester.

I. Soil Laboratory—Must be taken with G. Formation of soils from rocks, study of texture and its influence on plant growth. Humus, soil moisture, movement of air, specific gravity and volume weight. Two hours laboratory. First semester. Barker, Young and Assistants

J. Soil Laboratory—I continued. Must be taken with H. Second semester.

K. Principles of Soil Management—Soil as a medium for crop growth. soil moisture, plant food, air and temperature of the soil; farm manures,

drainage, liming alkali soils. Designed for those who wish to elect more soil work in the senior year than that accomplished in courses G, H, I and J. Two hours attendance. First semester. Barker

L. Principles of Soil Management—K continued. Second semester.

M. Soil Laboratory—Must be taken with K. More advanced work in soil physics. Designed for students who wish a more thorough knowledge of soils than that gained in the work of the Junior year. Two hours laboratory. One hour credit. First semester.

Barker, Young and Assistants

N. Soil Laboratory—M continued. Second semester.

EXPERIMENTAL AGRONOMY

Professor Kiesselbach

Offered primarily to graduates who wish to specialize in Experimental Agronomy. Students taking these courses must have completed all general courses in Agronomy and Farm Management and must spend the summer assisting in experimental work.

1. Investigation—Satisfactory work on some special line of investigation with assigned readings. Six to twenty hours laboratory. Thesis required. Two to five hours credit. First semester. Kiesselbach

2. Investigation—Continuation of 1. Second semester.

3. Methods of Investigation—Compilation of experimental data. Correlation tables. Statistical methods. Six to twenty hours laboratory. Two to five hours credit. Kiesselbach

4. Methods of Investigation—Continuation of 3. Second semester.

ANIMAL HUSBANDRY

Professor Bliss, Assistant Professor Rail, Assistant Professor Lee,
Mr. ———

PRIMARILY FOR UNDERGRADUATES

1. Judging Live Stock—Practice with the score card. Competitive judging of market types, by age, of cattle and swine. Four hours attendance. Two hours preparation, Craig's "Judging Live Stock." Two hours credit. First semester. Rail

2. Judging Live Stock—Practice with the score card and competitive judging of market classes of horses and sheep. Four hours attendance.

Two hours preparation, Craig's "Judging Live Stock." Two hours credit.
Second semester. Rail

3. Breeds of Live Stock—History of different breeds of live stock. Methods of development of breeds. Characteristics and adaptability of improved breeds. Two hours attendance. Four hours preparation. Two hours credit. First semester. Lee, Rail

4. Animal Nutrition—Elementary live stock feeding. Methods of feeding all classes of farm animals. The compounding of rations. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Bliss, Lee

5. Animal Nutrition—Advanced course. General composition of animal body. Composition and digestibility of foods. Digestion, absorption, and excretion. Influence of food on animal form and on qualities of meat and milk. Methods employed in conducting experiments in feeding. Two hours attendance. Four hours preparation. Two hours credit. First semester. Prerequisite: Course 4. Bliss, Lee

6. Principles of Animal Breeding—Theory and practice of animal breeding. Variation, correlation, heredity, prepotency, and selection. Grading, crossing, line breeding, inbreeding, and pedigrees. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Prerequisite: Zoology 1 and 2. Rail

7. Judging Live Stock—Advanced course in judging, with especial attention given to the study of breed type. Two hours attendance. One hour preparation. One hour credit. First semester. Prerequisite: Courses 1 and 2. Bliss, Rail

8. Judging Live Stock—Continuation of 7 and should be preceded by it. Two hours attendance. One hour preparation. One hour credit. Second semester. Bliss, Rail

9. Judging Live Stock—Continuation of 7 and 8, with special attention given to comparison and judging of animals of different ages and also of group judging. Two hours attendance. One hour preparation. One hour credit. First semester. Bliss, Rail

10. Animal Nutrition—Seminar. Prerequisite: Courses 4 and 5. Two hours attendance. Two to four hours preparation. One or two hours credit. Second semester. Bliss, Lee

11. Live Stock Management—Care and management of the breeding herd. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bliss, Rail

AGRICULTURAL HIGH SCHOOL COURSES

A. Judging Live Stock—Practice with the score card. Competitive judging of market types and classes, by ages, of cattle, sheep, and swine. Selecting animals for feeding purposes. Also judging meat carcasses. Four hours laboratory. First semester. Bliss, Lee, Rail

B. Judging Live Stock—Judging of breeds of horses, cattle, sheep, and swine by comparative methods. Special attention given to breed type and breed characteristics of animals. Four hours laboratory. Second semester. Bliss, Lee, Rail

D. Breeds of Live Stock—History of different breeds of live stock; methods of development of breeds; characteristics and adaptability of improved breeds. Four hours attendance. Second semester. Lee, Rail

F. Feeding Animals—Elementary live stock feeding; methods of feeding all classes of farm animals; the compounding of rations. Four hours attendance. Second semester. Bliss, Lee

H. Judging Live Stock—Advanced course for third year students. Prerequisite: Courses A and B. Four hours laboratory. Second semester. Bliss

I. Principles of Animal Breeding—Elective. An elementary study of fundamental principles of reproduction, heredity, variation, selection, and prepotency; also a consideration of practical problems in animal breeding. Two hours attendance. First semester. Rail

J. Principles of Animal Breeding—Continuation of I. Two hours attendance. Second semester. Rail

ANIMAL PATHOLOGY

Professor Gain, Associate Professor Sturdevant

2. Diseases of Farm Animals—Causes and prevention of animal diseases. Emergency treatment and minor surgery. Three hours attendance. Six hours preparation. Three hours credit. First semester. Gain

AGRICULTURAL HIGH SCHOOL COURSES

A. Anatomy and Physiology—Study of skeletons of horse and cow. Anatomy of digestive system and physiology of digestion. Circulatory system and study of blood. Two hours attendance. First semester. Sturdevant

B. Anatomy and Physiology—Respiration. The nervous system. The

senses. The foot. Generation and development. Two hours attendance. Second semester. Sturdevant

C. Diseases of Farm Animals—Hereditary diseases. Diseases of respiratory system. Prevention of digestive diseases. Minor emergency surgery. Prerequisite: Anatomy and Physiology A and B. Three hours attendance. First semester. Gain

D. Diseases of Farm Animals—Contagious diseases. Hygiene and Farm Sanitation. Three hours attendance. Three hours credit. Second semester. Gain

E. Elements of Physiology—Bones of skeleton. Digestion. The circulatory system. Respiration. The senses. Drugs and stimulants. Two hours attendance. First semester. Sturdevant

F. Hygiene and Sanitation—Personal hygiene. Domestic hygiene. Ventilation and water supply. Public hygiene. Two hours attendance. Second semester. Sturdevant

E and F. (Offered in the course for women in the Agricultural High School.)

DAIRY HUSBANDRY

Head Professor Frandsen, Assistant Professor White, Mr. ———, Mr. Markham

1. Milk Production—This course covers the field of Dairy Husbandry in its relation to the producer. It consists of two lectures a week and one laboratory period devoted to judging of Dairy Cattle. The lectures cover matter relating to the leading breeds of dairy cattle, their characteristics and adaptation for dairy purposes; the selection, breeding and building up of the dairy herd; selection of the dairy sire; calf raising; proper care of dairy cattle; the dairy barn; use of silo; a thorough study of the composition and relative food value of the leading dairy feeds and the feeding of dairy animals with special reference to economical milk production. Instruction in judging dairy cattle will consist of a study of the dairy type and characteristics of the various dairy breeds. Two hours attendance. Three hours laboratory. Three hours credit. First semester.

Frandsen, White

2. Butter Making—This course includes a general study of milk secretion; composition of dairy products, separation and acidity of milk. The preparation of starters, ripening of cream, churning, and the packing of butter. Two recitations and one laboratory period. Two hours attendance. Three hours laboratory. Three hours credit. Second semester.

Frandsen, Markham

3. Milk Testing and Inspection—This course consists of a study of Babcock's test for fat in milk and cream. It includes work with the various tests for moisture in butter, also a careful study of the methods for detecting preservatives and adulterations in dairy products, as well as the best methods of taking samples and of testing individual cows. This course also includes a careful study of the requirements necessary for the production of sanitary and certified milk. This course consists of one lecture and one laboratory period per week. One hour attendance. Three hours laboratory. Two hours credit. First semester. Frandsen, Markham

4. Dairy Judging—The object of this course is to enable the student to fix in his mind the types of cattle that are profitable producers of dairy products. The greater part of the work is done by comparative judging, using the Ayrshires, Guernseys, Holsteins and Jerseys of the College herd and those of nearby herds. Three hours laboratory. One hour credit. Second semester. White

5. Advanced Dairy Judging—A continuation of course 4. One hour preparation and two hours laboratory. One hour credit. First semester. Frandsen, White

6. Ice Creams and Ices—Elective in the Agricultural and Home Economics course. This course consists of a study of the manufacture of ice cream and ices. One hour lecture and one laboratory period. Two hours credit. Second semester. Frandsen

8. Domestic Dairying—This course is especially arranged for students of the Home Economics course. The object of this course is to give the student some practical as well as scientific knowledge concerning the care and preparation of dairy products for food purposes. The course includes lectures and laboratory work on the care of milk and cream; testing for fat, acidity, adulteration, preservatives and the general purity of milk and cream. Some work is also given in the manufacture of butter, cheese and ice creams. One hour attendance. Three hours laboratory. Two hours credit. Second semester. Frandsen, ———

10. Dairy Seminar—Elective in the senior year of the agricultural course. This work consists of a study of the work accomplished by the various experiment stations, also review of the best foreign dairy literature. One hour attendance. One hour credit. Second semester. Frandsen

12. Cheese Making—A study of the importance of the quality and composition of milk in the manufacture of Cheddar Cheese; the principles involved in cutting, heating, milling, maturing, salting and pressing the

curd, curing and marketing; influence of organized and unorganized ferments in cheese; the construction and ventilation of cheese curing rooms. This course also includes lectures and laboratory work in the manufacture and marketing of Brick, Cream and Cottage Cheese. One recitation and three-hour laboratory period. Two hours credit. Second semester.

Frandsen, Markham

AGRICULTURAL HIGH SCHOOL COURSES

A. Milk Production—The object of this course is to give practical instruction regarding the dairy cow on the farm, including adaptation of breeds, selection of breeds for various purposes, selection of individual cows by type and by butter fat records; general care and management. The Ayrshires, Holsteins, Guernseys and Jerseys of the College herd are used in demonstrating work in this course. Two lectures and four hours laboratory. First semester.

Frandsen, White, Liebers

C. Farm Dairying—Includes lectures on milk secretion; composition of dairy products, separation and acidity of milk. The preparation of starters and ripening of cream, churning and packing of butter. Two lectures and two hours laboratory. First semester.

Frandsen, White, Markham

D. Milk Testing and Inspection—This course includes practical work with Babcock's test of milk and cream. It also includes some work in testing for moisture in butter. This course also includes a careful study of the requirements necessary for the production of sanitary and certified milk. Two lectures and two hours laboratory. Second semester.

Frandsen, White

ENTOMOLOGY

Head Professor Bruner, Associate Professor Swenk, Mr. Dawson

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede all other courses in entomology except 3, 4, 7, 8, 9 and 10.

PRIMARILY FOR UNDERGRADUATES

1. General Entomology—A general survey of the class Insecta, with introductory lectures on arthropod structure, physiology, transformations, distribution and behavior, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life-histories and habits of typical species. Laboratory dissections of typical forms of the various orders, correlated with the lectures. Three-

hours attendance. Six hours laboratory and preparation. Three hours credit. First semester. Bruner, Dawson

2. **General Entomology**—1 continued. In addition, general work in the collection and classification of insects, and the study of microscopical forms. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester.

3. **Economic Entomology**—An introduction to the practical phases of entomology, presenting the broad principles of insect damage and control. Types of insect injury; beneficial insects; parasitism; gall formation; fungous and bacterial diseases of insects; climatic influence on insect control; cultural preventives and artificial remedies in fighting insect pests. Assigned readings and laboratory work in rearing insects and following out life-histories in the insectary, designed principally to give the student a general view of insect metamorphosis and of insectary methods and the use of apparatus. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester. Bruner

4. **Economic Entomology**—Detailed studies of our most conspicuous insect pests concerning their life-histories and habits, and preventives and remedies for them, and in the spring observations of their work in the field. Does not presuppose course 3, although it is recommended that students elect that course immediately preceding this one. Three hours attendance. Six hours laboratory, preparation and field work. Three hours credit. Second semester.

FOR GRADUATES AND UNDERGRADUATES

5. **Systematic Entomology**—A study of the principles and machinery of classification as applied to insects. Taxonomic groups; evaluation of characters; evolution of organs; dimorphism; nomenclature codes; synonymy; types; methods of description; construction of tables; use of reference books; faunal areas; ecological methods. Laboratory work with various insect groups designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven or more hours laboratory. Three or more hours credit. First semester. Swenk

6. **Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique involving the methods of collecting, preparing and preserving entomological specimens for the cabinet and museum; entomotaxy; use of entomological apparatus; entomography; entomological literature and methods of publication; bibliography, index and catalog

compilation. Two hours attendance. Seven or more hours laboratory and field work. Three or more hours credit. Second semester.

7. Agricultural Entomology—A review of the principal insects injurious to corn, the small grains, alfalfa and clover, grasses, the potato, sugar beets, and garden vegetables. Assigned readings and laboratory work in life-histories and actual field work in investigating insect pests. Two hours attendance. Seven or more hours preparation. Three or more hours credit. First semester. Swenk

8. Agricultural Entomology—7 continued. In addition, a consideration of the principal insect enemies of the apple, stone fruits, grape and bush fruits, and of domestic animals and stored vegetable and animal products, the preparation and use of insecticides and methods of spraying and fumigation. Two hours attendance. Seven or more hours preparation. Three or more hours credit. Second semester.

9. Apiculture—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, enlarging brood nests, controlling the colony growth, rearing of queens, honey and wax production, honey-producing plants, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. Three hours directed laboratory and reading. One hour credit. First and second semesters. Bruner

10. Domestic Entomology—A series of lectures on insect life, emphasizing especially the insects affecting the household, with suggestions for their control. House ants, cockroaches, termites, silver fish, clothes moths, carpet beetles, skippers, flour beetles and meal worms, lice, fleas, house flies, mosquitoes, etc. Two hours attendance. Four hours preparation and reading. Two hours credit. First semester. Swenk

11. Forest Entomology—Lectures and laboratory studies of the insects of the forest. Two hours attendance. Seven hours laboratory. Three hours credit. Second semester. Bruner

12. Historical Entomology—An outline of the history of entomology, particularly the development of economic entomology from the earliest efforts down to the work of Riley and the advent of the new school of entomologists. One hour attendance. Two hours assigned readings. One hour credit. Second semester. Swenk

13. Medical Entomology—A study of insects in their relation to the

transmission of certain human and animal diseases and of their capacity as human parasites. One hour attendance. Two or more hours laboratory. One or more hours credit. Second semester. Bruner

14. Seminary—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting one evening each month for the presentation of papers and the discussion of current progress in entomological science. Time spent in the preparation of papers and attending meetings may be applied as laboratory work.

15. Research in Systematic Entomology—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester. Bruner

16. Research in Systematic Entomology—15 continued. Second semester.

17. Research in Economic Entomology—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester. Bruner

18. Research in Economic Entomology—17 continued. Second semester.

AGRICULTURAL HIGH SCHOOL COURSES

A. Farm Entomology—Insects in their relation to Agriculture. For men. Two hours lecture. Two hours laboratory. First semester. Swenk

B. Farm Entomology—Course A continued, taking up the principal insect pests of our crops. Two hours lecture. Two hours laboratory. Second semester.

C. Home Economics Entomology—Insects in their relation to the household. For women. Two hours lecture. Two hours laboratory. First semester. Swenk

D. Home Economics Entomology—Course C continued. Second semester.

E. Farm Entomology—An abridgment of courses A and B for students in the winter course. Sixteen lectures. Bruner, Swenk

FARM MANAGEMENT

Head Professor Pugsley, Assistant Professor Filley

FOR UNDERGRADUATES AND GRADUATES

3. Farm Management—Dealing with farm problems, such as farm location, capital, operating expenses, equipment, cost of production, systems of land tenure, size of farms, crop rotations, labor and marketing. Should be preceded or accompanied by Agronomy 1, 2a, 7 and 9. Three hours attendance. Six hours preparation. Three hours credit. First semester.

Filley

4. Farm Management Seminar—Prerequisite: Course 3. This course deals with problems in farm management and is a continuation of course 3. Special lines of investigation relating to farm management are taken up by the students. Three to fifteen hours meeting, preparation and library. One to five hours credit. Second semester.

Pugsley, Filley

5. Advanced Farm Management—Prerequisite: Courses 3 and 4. A part of the work must be done in the field and may be done during vacation. It is designed to train the students for field work, and to give them a first hand knowledge of Nebraska farm conditions. It will involve a detailed study of the application of economic and scientific principles to the business management of the individual farm, taking an inventory and farm census, mapping out fields, comparison of various farms as to methods of management, or the student may work out a specific problem. Primarily for graduate students. Admission by consent of the instructor. Three to fifteen hours meeting, field work, tabulating of data and library. One to five hours credit. First semester.

Pugsley, Filley

6. Advanced Farm Management—5 continued. Second semester.

17. Farm Documents—A course dealing with legal papers with which the farmer should have a working knowledge, such as deeds, mortgages, leases, negotiable instruments, etc. Some time will be devoted to those phases of rural law bearing most directly upon farm management problems. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Filley

18. Farm Accounting—Continuation of 17. A course dealing with the importance of keeping farm accounts, in which a simple and practical system will be discussed. The subject matter and the arrangement of the farmers' library will receive some attention. Two hours attendance. Four hours preparation. Two hours credit. Second semester.

Filley

AGRICULTURAL HIGH SCHOOL COURSES

A. Farm Management—This course is a study of the principles underlying farm management. It covers such problems as capital, farm organization, distribution of labor, establishing rotations, cooperation and marketing. Three hours attendance. First semester. Filley

B. Farm Documents and Farm Accounts—This is a continuation of course A, and deals largely with legal papers and farm accounting. Legal papers with which every farmer should have a working knowledge, such as deeds, mortgages, leases and negotiable instruments, receive consideration. Students are given practice work with a system of accounts which is practical for farm conditions. Three hours attendance. Second semester. Filley

FORESTRY

Professor Morrill, *Adjunct Professor Duppert

Course 1 is open to all students. Before electing other courses students should confer with the head of the department. Courses 5, 7, 8, 11, 12 and 15 may be taken by students in other departments; in addition to these courses 23, 24 may be taken as minors by graduates who are candidates for advanced degrees in other departments. Advanced students desiring to elect Forestry Problems (Forestry 23, 24), or to pursue investigations along other forestry lines, may arrange the number of credit hours by consulting with the head of the department; no more than four credit hours will be allowed for this work in any one subject in one semester.

Course 17a is given by a state forester if feasible, otherwise by one of the forestry faculty. Courses 12a and 12b are given by Mr. William H. Mast. Through the courtesy of the United States Forest Service, the University is frequently able to announce special lectures on various forestry problems. Lumbermen and City Foresters are occasionally engaged for a few lectures. Special instruction is given in emergency surgery; and discussion and demonstration of camp equipment, camp cooking, and of packing on horses is offered. A special course is given in rhetoric designed to give the forestry student preparation for the writing of scientific reports on forestry subjects, the articles being corrected for English and structure in the Rhetoric Department and for Scientific accuracy in the Forest Department. A virile well attended Forest Club is engaged in the study of various forestry topics and publishes annually a creditable forestry magazine.

* Resigned.

A degree of Master of Forestry is given upon satisfactory completion of the courses scheduled for the fifth year. This presupposes a major in Forestry and a minor in Botany. If a minor in Entomology, in Engineering or in other departments is desired, the student should confer with the heads of both departments. In addition, one year's practical field experience in forestry will be required before granting the Master's degree. This may be accomplished by vacation work or by a year's continuous work. Such experience is essential to proper training of the student and should be as diversified as possible.

1. **General Forestry**—Treatment of forestry in a popular manner to give the general student a brief survey of forests and forestry in the United States and in foreign countries; relation of forestry to agriculture and to other industries. One hour attendance. Two hours preparation. One hour credit. First semester. Duppert

2. **General Forestry**—Forestry in the United States in greater detail for students specializing in the subject. The elements of many forestry subjects are covered and the foundations are laid for more exhaustive development in succeeding courses. One hour attendance. Two hours preparation. One hour credit. Second semester. Duppert

3. **Dendrology**—Identification and classification of the chief coniferous trees of the United States; their distribution, economic importance, silvical requirements. By lectures supplemented by lantern slides the characteristics of these trees in forest types are shown. Emphasis is placed upon practical methods for identifying the trees in the field. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester. Morrill

4. **Dendrology**—A continuation of course 3 but pertaining to the chief broad leaf trees of the United States; their identification in the winter as well as in the summer. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester. Morrill

5. **Study of Woods**—A study of the structure of the important woods leading to their identification. The laboratory is supplied with specimens of the leading commercial woods of the United States and some of the imported woods. The physical properties of these woods, such as hardness, color, odor, grain, texture, density, are studied in relation to identification and to their economic value. One hour attendance. One hour reading. Four hours laboratory. Two hours credit. First semester. Morrill

Applied Mechanics 20. **Timber Physics**—Primarily for forestry students. Prerequisite: Forestry 5. Physical and mechanical properties of wood; laboratory practice in ascertaining the properties of structural timber by bending, compression, shearing, torsion, impact, tension tests; relation of knots, moisture and structure of wood to strength. One hour attendance. One hour laboratory. Two hours credit. Second semester. Chatburn

Civil Engineering 30. **Forest Survey**—Designed for students of forestry. Prerequisite: Civil Engineering 5, 5a. Field and map work. Three hours credit. Second semester. Bridgman

7. **Forest Utilization**—Uses of timber; methods of logging and milling; the factors influencing the choice and use of logging methods; cost of lumbering in various forest regions; seasoning, grading, markets; a determination of stumpage values and the products of timber sales; secondary forest products; minor forest products. Two hours attendance. Four hours preparation. Two hours credit. First semester. Duppert

8. **Forest Utilization**—7 continued. Second semester.

11. **Silviculture**—Objects of silviculture; forest soils, temperature, moisture, light, wind and their relation to tree growth; forest influences on soil, climate, and stream flow; a study of the forest as a society of trees; silvical characteristics of stands; forest types; pure and mixed forests. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. First semester. Duppert

12. **Silviculture**—11 continued. Methods of reproducing forests; forest nurseries, planting, sowing, thinning, harvesting; forest injuries and methods of preservation. Includes 12a and 12b. Same amount and distribution of time and same credit as in course 11. Duppert

12a. **National Forest Planting**—Methods of seed collecting, seed storage, nursery practice, and field planting. From six to eight lectures. Second semester. Mast

12b. **Commercial Nursery Practice**—Methods used in various parts of the United States; private forest plantations. From six to eight lectures. Second semester. Mast

14. **Forest Mensuration**—Construction of log rules and scaling. Methods of determining volume, age and increment of trees singly and of stands. Construction of volume tables, growth tables, yield tables following the gathering of data in the field. Practical application of this course

is made also in Forestry 20a. Three hours attendance. Six hours laboratory, library and field work. Three hours credit. Second semester.

Morrill

15. Construction Engineering. The construction of forest telephone lines, roads and trails, fire lines and lookout stations, cabins, barns, fences; designing bridges, trestles, culverts, flumes, trams, slides and splash dams; assigned reading preparatory to Railway Surveying (Civil Engineering 8). Two hours attendance. Four hours preparation. Assigned reading. Two hours credit.

17. Forestry Policy—State and Federal forest and land laws. State and national activity as to public and private holdings of timber lands; taxation timber owners' associations; state and private co-operation in fire protection. Includes 17a. One hour attendance. Two hours preparation. One hour credit.

Morrill

17a. Special state forestry problems; management of state reserves. Ten lectures by a state forester.

19. Forest Management and Valuation—The relation of forest management to silviculture; forest rotation based upon various points of view; the normal forest; methods for accomplishing sustained yield. Valuation of forest soil and of forest growth. Forest organization and administration. Forest working plans. Three hours attendance. Six hours preparation. Three hours credit. First semester.

Morrill

20. Forest Management and Valuation—19 continued. Second semester.

Morrill

20a. About April 1 a field trip will be made to some extensive forest region where a tract of forest will be surveyed, the stands carefully estimated, growth studies made, logging and milling problems investigated and data for a forest working plan secured. About May 1 the class will return to the University and prepare the working plan and other reports.

21. Thesis—Subject for thesis is to be selected upon recommendation of the head of the department. Consultation hours to be arranged. Six hours preparation. Two hours credit. First semester.

Morrill, Duppert

22. Thesis—21 continued. Second semester.

23. Forestry Problems—A definite problem will be assigned to each student. A written report is required upon completion of the work. Consultation hours to be arranged. Six to twelve hours laboratory. Two to four hours credit. First semester.

Morrill, Duppert

24. **Forestry Problems**—23 continued. Second semester.

25. **Seminar**—Review of all the forestry courses preparatory to civil service examinations; and assigned reading.

26. **Seminar**—25 continued during first half of second semester.

28. **History of Forestry**—Twenty lectures and quizzes covering briefly the development of forestry practices in Europe and America and the discussion of economic conditions which lead to the adoption of forestry. One hour attendance. Two hours preparation. One hour credit. ———

30. **Grazing**—Twenty lectures, together with assigned reading, discussing range and live stock problems, Forest Service grazing and their identification and relative values, range reseeding; live stock diseases. One hour credit. Morrill

When feasible special lectures on the subject will be given by grazing experts of the Forest Service.

American History 10. **Land Laws and Policy of the United States**—Open to agricultural, engineering, forestry, and advanced academic students. Development of the successive "Wests" of American history, and the land policy accompanying each; general land policy of the present day; laws and policies in regard to agricultural, mineral, forest, and grazing lands. Three hours attendance. Three hours credit. Second semester.

Persinger

AGRICULTURAL HIGH SCHOOL COURSES

A. **Farm Forestry**—Relation of forestry to agriculture. Wind-breaks, shelter-belts, and forest plantations. Methods of propagation, planting, and protection. Two hours attendance. Four hours library and field work. First semester. Duppert

B. **Farm Forestry**—An adaptation of course A for students in the short course of the Agricultural High School. Sixteen lectures. Duppert

GEOGRAPHY AND CONSERVATION

CONSERVATION AND SOIL SURVEYS

Head Professor Condra, Professor Loveland, Associate Professor Bengtson

The agricultural subjects of this department are: Courses 1, 2, 4, 5, 6, 21, 23, 24 and 28. Course 1 considers the origin and description of land forms. Course 2 treats the structure, climate, topography, resources and industries of North America. It describes the various soil regions. Course

4 is especially designed to meet the need of Forestry and agricultural students. Course 5 is planned for persons who wish a detailed description of the mineral fuels, forest and water resources and their industries. Course 6 is agricultural technology, giving the regions, processes, and products of the leading agricultural industries. Course 21 is a field study of lands. Numbers 23 and 24 are on soil survey. Course 28 gives the structure, climate, surface feature and industries of Nebraska.

Nebraska Conservation and Soil Survey—This survey is directed by the department of Geography and Conservation. It is a natural resource survey in studying soil, water, forest and problems in development based thereon. Students wishing to prepare for work on soil surveys should take courses 1, 21, 23, 24, and 28. Laboratory courses in soils, necessary for survey work, are offered in the department of Agronomy.

1. **The Land**—A lecture and laboratory course in practical physiography. Some of the topics treated are: The common minerals and rocks; structures; relief features of the land; origin and detailed description of the land forms produced by wind, ground water, rivers, and glaciers; map interpretation and classification. The lectures are fully illustrated by lantern slides, maps, models, and specimens. Two hours attendance. Two hours laboratory and two hours library and preparation. Two hours credit. Open to all. First semester on city campus. Condra, Bengtson

2. **North America**—The leading geographic conditions, such as structure, topography, harbors and coast line, climate and the natural resources are treated with considerable detail in their relation to the industrial, political, and social development of the topographic regions and countries. Most time is given to United States and Mexico. The Great Plains region is emphasized. Lectures fully illustrated. Laboratory studies based on topographic and physical maps, climatic charts, atlases, and models. Attendance two hours. Laboratory, library and preparation four hours. Two hours credit. Second semester. Condra, Bengtson

4. **The Atmosphere (Meteorology)**—This course is designed to meet the practical needs of students of agriculture and forestry. The importance of temperature, humidity, and movements of the atmosphere to forest and agricultural problems is studied in detail. Students are taught the construction of weather maps and climatic charts; forecasting; and the use and care of meteorological instruments. Given at Farm campus first semester for agricultural students, at city campus second semester for foresters. Two hours attendance. Four hours laboratory and preparation. Two hours credit. Loveland

5. **Industrial Geography**—This course is a close study of the mineral fuels, forest, and water resources of the United States and their conservation or development. Detailed studies are made of the regions, processes and products of the following industries: Coal, coke, petroleum, iron and steel, lumber, turpentine, pulpwood and rubber. Lectures are fully illustrated by slides, charts and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

6. **Agricultural Industries**—Practical studies are made of the following industries: Cotton, corn, cattle, sheep, wheat, rice, tobacco, beet and cane sugars, citrous fruits, apples, coffee and tea. The processes involved in converting raw material into the finished articles of commerce are emphasized. The forms, processes, and commercial relations are illustrated by means of specimens and lantern slides. This is a course in practical agricultural technology. Two hours attendance. Four hours library, museum and preparation. Two hours credit. Second semester. Condra, Bengtson

21. **Field Work**—Open to all men students. Excursions are made to the valleys of Salt Creek, Blue River and the Platte to study the various surface features such as flood plains, benches, talus slopes, scarps, bluffs and ridges. The sand dredges, gravel pits, clay pits, and quarries are examined and described. Use of the level, camera, and drawing materials as employed on surveys. Interpretation of topographies and origin of different soil types emphasized. Field trips on certain Saturdays. One or two hours credit. First and second semesters. Bengtson

22. **Field Work**—21 continued. First and second semesters.

23. **Soil Survey**—A field course in practical soil classification and mapping. The methods used in state and national surveys are exemplified. Designed especially for agricultural students. See instructor before registering. Two hours credit. First and second semesters. Condra

24. **Soil Survey**—Course 23 continued.

28. **Agricultural Geography**—A course emphasizing the physiography and industries of our home state. The topographic and soil regions are carefully studied, especially with respect to their agricultural relations. Structures, land erosion, ground water, and rural water supplies are emphasized. Lectures are given by men representing different phases of state development and survey activities. Designed for those who wish to

know Nebraska better. Lectures illustrated. Some field trips are made to places of physiographic or industrial interest. Two hours credit. Second semester.

Bengtson

HORTICULTURE

Professor Emerson, Assistant Professor Westgate,* Assistant Professor Cooper

GENERAL INFORMATION

The laboratories of the department are provided with charts, models, and specimens illustrating various phases of horticulture. Greenhouse room is available for the plants used in experimental work. A small nursery in the horticultural grounds furnishes much of the material used in the laboratory and at the same time illustrates practical methods of propagating various plants. The orchards, vineyards and small fruit gardens of the Experiment Station afford practice work in pruning and training fruits and present the opportunity for comparison of various cultural methods. The farm campus and newly established arboretum furnish very good material for the study of landscape gardening. A limited number of advanced students who desire to fit themselves as teachers or investigators will be employed at a moderate compensation to assist in the laboratory of the Agricultural High School during the winter or to help in the experimental work of the Experiment Station during the summer. The investigations now being conducted by the department on the subject of heredity afford especially favorable opportunities to graduate students.

Botany 1 and 2 should precede all college courses in horticulture and must precede courses 7 and 8. All college courses are open to women as well as to men, but course 6 is especially recommended to women. Courses 5, 9 and 10 are open only to students specializing in horticulture. Students taking course 9 or 10 will ordinarily find it necessary to be at the Experiment Station during the summer.

PRIMARILY FOR UNDERGRADUATES

2. Orcharding—A detailed consideration of orchard management. The tree fruits grown in Nebraska are studied according to the following scheme: Selection and propagating of varieties, choice of site, preparation of the land, planting, cultivation, cover crops, fertilizers, wind-breaks, pruning, spraying, protection from frost, harvesting, packing, storing, mar-

* Resigned.

keting; renovating old orchards. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. First semester.

Cooper

3. Apple Judging—A study of fall and winter varieties of apples adapted to Nebraska. Practice in judging with and without score cards, identifying and describing varieties, preparing exhibits, packing and storing, etc. One hour attendance. Four hours laboratory. One hour library. Two hours credit. First semester.

Cooper

4. Fruit and Vegetable Gardening—Small fruits adapted to Nebraska are considered according to the scheme outlined for tree fruits in course 2. A part of the time will be devoted to a consideration of the more important garden vegetables. Three hours attendance. Two hours laboratory. Two hours library. Two hours preparation. Three hours credit. Second semester.

6. Ornamental Gardening—A consideration of the principles of landscape gardening with practice in landscape designing. A study of ornamental trees, shrubs and other plants adapted to planting in Nebraska; their classification, culture, and decorative value. Two hours attendance. Two or four hours laboratory. One or two hours library. One hour preparation. Two or three hours credit. Second semester.

FOR UNDERGRADUATES OR GRADUATES

7. Principles of Plant Breeding—An elementary study of the principles underlying plant improvement, including simple discussions of the following: How plant characters arise and disappear, sports or mutations, bud variation. How characters are inherited, alternate versus blended inheritance. Mendelian and non-Mendelian inheritance. Appearance and inheritance of latent characters. Reversion. Correlation of characters in inheritance. Degree of development of characters, or fluctuation due to environment. Adaptation. Statistical study of fluctuations. Inheritance of fluctuations. Effect of selection in modifying the type of self and open-pollinated plants. Pure lines. Mass selection versus isolation of biotypes. Pedigree breeding. Hybridization as a means of combining desirable parent characters. Inbreeding. Students will study and classify variations in wild and cultivated plants, prepare a herbarium of variations, practice hybridizing plants, and study hybrid material in the greenhouse and laboratory. Two hours attendance. Two hours laboratory. One hour library. One hour preparation. Two hours credit. First semester.

Emerson

8. **Genetics**—Current theories of variation and heredity; their bearing upon plant breeding. A critical study of the published results of recent investigations. Assigned readings and consultation. Six or nine hours library. Two or three hours credit. Second semester. Emerson

9. **Horticultural Problems**—The study of assigned problems in plant breeding or in the production of horticultural crops. In the main only problems closely related to the investigation being conducted in the Experiment Station will be assigned. Laboratory or field work with assigned readings, consultation, and the preparation of a satisfactory thesis. Five to twelve hours laboratory. One to three hours library. Two to five hours credit. First and second semesters. Emerson

10. **Horticultural Problems**—Continuation of 9. First and second semesters.

AGRICULTURAL HIGH SCHOOL COURSES

Courses A and B are for first-year men, courses C and D for second-year women, courses E and F (elective) for regular fourth-year men and irregular third-year men.

A. **Home Horticulture for Men**—The management of the home orchard, including the propagation, culture, harvesting, and storing of such fruits as the apple, pear, cherry, plum, peach, raspberry, blackberry and strawberry. Two hours laboratory. Two hours attendance. First semester.

B. **Home Horticulture**—A continued. The ornamentation of the farm home, including the selection and care of our best ornamental plants, also the home vegetable garden. Each vegetable studied with reference to soil cultivation, varieties, harvesting, and uses. Two hours attendance. Two hours laboratory. Second semester.

C. **Home Horticulture for Women**—The home orchard and vegetable garden. Principles of ornamental gardening as applied to the home. Two hours attendance. Two hours laboratory. First semester.

D. **Home Horticulture**—C continued. Second semester.

E. **Commercial Horticulture**—Commercial value of the various fruits, also the methods of meeting the market conditions, profits in fruit growing, etc. Two hours attendance. Two hours laboratory. First semester.

F. **Commercial Horticulture**—E continued.—Market gardening and the principles of landscape design. Two hours attendance. Two hours laboratory. Second semester.

HOME ECONOMICS

Head Professor Loomis, Adjunct Professor Davis, Adjunct Professor Olsen,
Miss Nesbit, Miss Hedges, Miss Brown, Miss Richards,
Miss Ohlsen, Miss Miskell

GENERAL INFORMATION

The courses in this department are planned to meet the needs of three classes of students:

(1) Those students who are specializing in other lines of study and desire some knowledge of home economics as part of a general education.

(2) Those students who desire a special study of home economics together with the arts and sciences necessary for the successful management of homes.

(3) Those students who wish to teach domestic science and art or home economics.

Since the larger part of the billions of dollars spent annually in the United States for food, clothing and shelter is spent by women and since much of the comfort, health and efficiency of the family depend upon the management of the home, courses in home economics are planned to help prepare women for these responsibilities.

Courses are required in related subjects, hygiene, sociology, arts and sciences. Approximately one-fourth of the work is given in the Home Economics Department, one-fourth is in science and one-fourth in language and history. In the Junior and Senior years a part of the work is elective.

The lectures are given on the city campus or preceding laboratory periods in Home Economics Hall. This building, besides affording a dormitory for students in the Agricultural High School, contains six well equipped laboratories, a practice dining room and kitchen and a small modern laundry. The Hall offers an excellent opportunity for practice work in household administration problems.

For a double minor in Home Economics in the Teachers College the following courses are required: 1, 2, 3, 4, 5, 6, 13 and 14; for a minor in Domestic Science, 1, 3, 4, 5, 6; and for a minor in Domestic Art, 1, 2, 3, 7, 8.

1. Sewing and Design—Fundamental principles of hand and machine sewing applied to making of household articles, undergarments and shirt

waist suit. Drafting and use of patterns. Repairing, by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to Household Art. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Davis, Brown, Olsen

2. Sewing and Design—1 continued. Second semester.

3. Foods: Selection and Preparation—Composition and function of typical foods; fundamental principles and processes of cooking and their application in the preparation of individual dishes; nutritive and money values. Should be preceded by Chemistry 1 and 2. Two hours attendance. Six hours laboratory. One hour outside preparation. Three hours credit. First semester.

Olsen, Hedges, Miskell

4. Foods: Selection and Preparation—3 continued. Second semester.

5. Advanced Food Study—Preservation of foods. A study of the manufacture and choice of foods from the economic standpoint. Development of the kitchen and its apparatus. Comparison of the cost, quality and sanitation of foods manufactured outside and inside of the home. Three lectures. Six hours laboratory. Three hours credit. First semester.

Loomis, Olsen, Hedges, Richards

6. Dietetics—Consideration of problems of digestion and metabolism. Study of dietaries of given cost and their adaptation to varying conditions of health, age and environment. Institutional dietaries. School lunch rooms. Three hours attendance. Six hours laboratory. Three hours credit. Second semester.

Loomis, Olsen, Hedges, Richards

7. Textiles and Clothing—Crinoline modeling and advanced work in drafting, cutting, fitting and finishing gowns. Millinery, construction of frames, covering and trimming. Embroidery, the principal stitches used in decorative art and their application. Textiles, microscopical and chemical tests. Design, color work. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Davis, Brown

8. Textiles and Clothing—7 continued. Second semester.

9. Household Administration—House plans and furnishings; ventilation, heating, lighting, water supply, disposal of waste; management of household affairs, division of income, domestic service, and home nursing; care of the house. Two hours attendance. Two hours laboratory. Five hours outside preparation. Three hours credit. First semester. Loomis

10. **Household Administration**—9 continued. Second semester.

11. **Survey Course in Food Study**—For students in the College of Arts and Sciences who desire a general knowledge of foods, their composition, preparation and place in the dietary. Two lectures. Four hours laboratory. Two hours credit. First semester. Open only to students above the Freshman year. Not required in the Four-Year Home Economics Group. Olsen, Hedges, Richards

12. **Survey Course in Foods**—A continuation of 11. Includes the preparation and service of simple dietaries for adults and children in health and disease.

13. **Teachers' Course**—Theory and method of teaching Home Economics. Required of candidates for the University Teachers' Certificate in Home Economics. Lectures with practice teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester. Loomis, Davis

14. **Teachers' Course**—13 continued. Second semester.

Agricultural Engineering 5. **Wood Work and Interior Finish**—First semester. Baer

Agricultural Engineering 18. **Wood Work and Interior Finish**—Second semester. Baer

AGRICULTURAL HIGH SCHOOL COURSES

A. **Sewing and Design**—Fundamental principles of hand and machine sewing applied to making of household articles and undergarments. Repairing by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to household art. Three hours attendance. Six hours laboratory. First semester.

B. **Sewing and Design**—A continued. Second semester.

C. **Cooking**—Elementary study of the selection and preparation of food based upon its composition. Two hours attendance. Four hours laboratory. First semester.

D. **Cooking**—Continuation of C.

E. **Advanced Cooking**—Preservation of food. A study of the choice of food for adults and children in health and disease. Preparation and serving of lunches and meals. Two hours attendance. Four hours laboratory. First semester. (See L.)

F. **Advanced Cooking**—Continuation of E. (See M.)

G. Household Art—Drafting and use of patterns. Cutting, fitting and finishing of dresses. Simple embroidery. Millinery. Textiles, including care, cost and hygiene of clothing. Three hours attendance. Six hours laboratory. First semester. (See L.)

H. Household Art—Continuation of G. (See M.)

I. House Practice—Decoration and care of the house. The study begins with the student's room and includes lecture and laboratory work and excursions. One hour attendance. Two hours laboratory. First semester. I must be taken in connection with C.

J. House Practice—Construction, lighting and heating of the home. Continuation of I and taken in connection with D.

K. House Practice—An elementary study of problems in household management. One hour attendance. Two hours laboratory. First semester. K must be taken in connection with E.

L. Normal Course in Domestic Science and Art—Seniors in the Normal Course will have two hours attendance and four hours laboratory in both C and G and the same amount of time will be spent in L. A study of work in cooking and sewing that may be introduced into rural schools with very little equipment.

M. Continuation of L.

MILITARY SCIENCE AND TACTICS

[See College of Arts and Sciences]

PHYSICAL EDUCATION

[See College of Arts and Sciences]

ZOOLOGY

[See College of Arts and Sciences]

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Station for Nebraska**

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- JAMES COWAN, M. E., Superintendent Experimental Substation, Valentine.
- FRITZ KNORR, B. Sc., Superintendent Experimental Substation, Scotts bluff.
- SENATOR WILLIS PERIN, Farm Superintendent.
- JOHN RALPH COOPER, B. Sc., Assistant in Horticulture.
- GUY R. McDOLE, A. M., Assistant in Agricultural Chemistry.
- CLAYTON O. ROST, A. B., Assistant in Agricultural Chemistry.
- HOWARD J. GRAMLICH, B. Sc., Assistant in Animal Husbandry (Horses).

THE CENTRAL EXPERIMENT STATION

The Nebraska Agricultural Experiment Station, carried as a department of the College of Agriculture of the University of Nebraska, is maintained from funds appropriated by Congress, supplemented by state appropriations. Under the provisions of the Hatch Bill, each state and territory that had established an agricultural college under the land grant act of 1862 was offered funds to establish, in connection therewith, an agricultural experiment station. Nebraska assented to the conditions and was one of the states to receive immediate benefits from the act.

The work contemplated by the law providing for these experiment stations is set forth as follows in section 2 of the act establishing the station:

SECTION 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under the varying series of crops; the capacity of new trees or plants for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states and territories.

On March 16, 1906, an act known as the Adams act became effective, granting increased support to the Experiment Station for purely technical investigations along the lines mentioned in the Hatch act under which the Experiment Station was established, and since the acceptance of this fund the Experiment Station has been conducting these technical lines of investigation in accordance with the act.

The central experiment station is located at the University Farm, except the Finance Office, which is located at the University campus. The farm comprises a tract of 320 acres located three miles east of the University, having street car connections. About one hundred acres is now laid off as

experiment plats for field crops, fruits, and vegetables. The animals used for experiment are in a measure furnished from the herds of cattle, sheep and hogs used for instructional purposes. The offices of the Director and of the departments of Animal Husbandry and Farm Management, and the Agricultural Library, are in Agricultural Hall. The offices of the departments of Instructional Agronomy, also of Agricultural Chemistry, and the laboratories for investigation in these lines are in Experiment Station Hall. The Departments of Horticulture, Agricultural Botany, Entomology and the offices of Experimental Agronomy are in Plant Industry Hall. Dairy Husbandry and Animal Pathology have separate buildings.

THE EXPERIMENTAL SUBSTATIONS

North Platte Substation. The Experimental Substation provided for by the Legislature of 1903 is located in Lincoln County, three miles south of North Platte, on a tract of 1,920 acres. This farm contains 270 acres of bench land with an elevation of about 2,800 feet. About 140 acres of this farm is level table-land with an elevation of 3,000 feet, the remainder of the farm being rough canyon and table-land devoted to pasture. The experiments in crop and animal production upon this farm are comparable with nearly all the crop production and animal industry of Central Nebraska. Experiments in crop production are conducted entirely without irrigation. Bulletins are published from time to time through the central experiment station.

Valentine Substation (the Sand Hills Station). The Legislature of 1909 provided for an additional substation west of the second guide meridian and north of the sixth standard parallel. This station was located by the Regents, after due consideration, at Valentine, Nebraska, upon a portion of the Military Reservation adjoining the town to the southeast, a permanent lease being secured from the War Department to section 32, the west half of section 33, and that part of the southeast quarter of section 33 lying northwest of the Niobrara river,—all in township 24 north, range 27 west, in Cherry County, Nebraska. Upon request to the citizens of Valentine, a deed was given to the Regents for the University to 40 acres of land lying immediately west of section 32, being the northeast quarter of the southeast quarter of section 31, township 24 north, range 27 west, in Cherry County, Nebraska. A Superintendent's house, a barn, and other buildings have been erected upon the deeded land, the entire tract has been

fenced, and preparations have been made and active experimental work began in the spring of 1911.

The Scottsbluff Substation. The Legislature of 1909 also provided for an appropriation to be used in co-operation with the United States Department of Agriculture to study irrigation methods and crop production in the North Platte Valley. 160 acres of land located on the southeast quarter of section 21, township 23 north, range 57 west, was selected for this purpose and was withdrawn from entry by the Reclamation Service and assigned to the use of the United States Department of Agriculture and the Nebraska Experiment Station for the purposes above named. Experimental work in crop rotation, the application of water to the land, and other questions relative to the development of agriculture in the North Platte Valley are in progress. Work in dry land agriculture is also being studied on land which does not receive irrigation water.

The Culbertson Demonstration Farm. The Legislature of 1911 made an appropriation to establish experimental work at Culbertson under such conditions as the Regents might determine. After several trips of investigation, the Regents on April 13, 1912, purchased from Mr. W. H. Ferguson the southeast quarter of section 9, township 3, range 31 west, 160 acres of land, for a demonstration farm. The farm is located about one-half mile east of the town of Culbertson, on the north side of the main traveled road. It slopes toward the road and is somewhat rolling. It is all under an irrigation ditch, so that it may be farmed under irrigation if desired. The Regents did not acquire water rights with the land.

Only a small portion of the farm came into immediate possession of the Regents, so that not much farming has been carried on. A superintendent was placed in charge. A residence has been erected, and a small tool shed and stable for temporary use. It is expected that the Legislature of 1913 will make appropriations to complete the equipment of this farm.

EXPERIMENT STATION BULLETINS

Each year the Station publishes at least four bulletins. These contain the results of investigations in subjects pertaining to agriculture. Many of these bulletins cover lines of technical investigation upon scientific subjects relating to agriculture. The reports of investigation at all substations are published through the central station. The edition of each bulletin varies from 3,000 to 10,000 in technical bulletins and from 10,000 to 30,000 or more in regular bulletins. An Annual Report of 5,000 copies

is published, containing a summary of the work of the year and experimental results of interest to investigators. The publications of the Station since those reported in the last General Catalog are as follows:

Research Bulletin No. 1. A Dry Rot of the Irish Potato Tuber. By E. Mead Wilcox, George K. K. Link, and Venus W. Pool. 5,000 copies.

Research Bulletin No. 2. The Inheritance of Quantitative Characters in Maize. By R. A. Emerson and E. M. East. (In press.) 3,000 copies.

Research Bulletin No. 3. Studies on the Relation of the Non-available Water of the Soil to the Hygroscopic Coefficient. By F. J. Alway. (In press.) 3,000 copies.

Bulletin 123 (Substation Bulletin No. 9). Fattening Hogs in Nebraska. By W. P. Snyder. Distributed February 22, 1912. 30,000 copies.

Bulletin 124 (Substation Bulletin No. 10). Fattening Hogs in Nebraska. By W. P. Snyder. Distributed June 15, 1912. 5,000 copies. (Technical bulletin).

Bulletin 125. Wheat Breeding Experiments. By E. G. Montgomery. Distributed March 15, 1912. 30,000 copies.

Bulletin 126. Native Seed Corn. By E. G. Montgomery. Distributed March 20, 1912. 30,000 copies.

Bulletin 127. Competition in Cereals. By E. G. Montgomery. Distributed May 8, 1912. 5,000 copies.

Bulletin 128. Studies in Water Requirements of Corn. By E. G. Montgomery and T. A. Kiesselbach. Distributed May 8, 1912. 5,000 copies.

Bulletin 129. Results of the Douglas County Cow Testing Association. By A. L. Haecker and J. H. Frandsen. Distributed May 1, 1912. 25,000 copies.

Bulletin 130 (Substation Bulletin No. 11). Forage Rations for Growing Horses. By W. P. Snyder. Distributed June 1, 1912. 25,000 copies.

Bulletin 131 (Extension Bulletin No. 7). Smuts of Nebraska Cereals. By E. Mead Wilcox. Distributed August 30, 1912. 20,000 copies.

Bulletin 132. Beef Production. By H. R. Smith. Distributed October 21, 1912. 25,000 copies.

Bulletin 133 (Extension Bulletin No. 8). Care of Milk and Cream on the Farm. By J. H. Frandsen. Distributed October 21, 1912. 25,000 copies.

Bulletin 134. A Dry Rot of the Irish Potato Tuber. By E. Mead Wilcox and George K. K. Link. 20,000 copies.

Bulletin 135 (Substation Bulletin No. 12). Growing Crops in Western Nebraska. By W. P. Snyder and W. W. Burr. (In press.) 20,000 copies.

Bulletin 136. Alfalfa Inoculation Tests. By C. W. Pugsley. 20,000 copies.

Extension Bulletin No. 3. The Germination Test for Seed Corn. By T. A. Kiesselbach. Distributed February 12, 1912. 40,000 copies.

Press Bulletin No. 37 (Extension Bulletin No. 6). Spraying Apple Trees. By R. F. Howard. Distributed April 18, 1912. 22,000 copies.

Press Bulletin No. 38 (Extension Bulletin No. 9). The Selection and Care of Seed Corn. By Erwin Hopt. Distributed September 7, 1912. 30,000 copies.

Twenty-fifth Annual Report. Presented to the Governor February 1, 1912. 5,000 copies.

The Experiment Station desires to assist the farmers of the state in solving many of the difficult and perplexing problems that affect our agricultural production, and to this end is carrying on investigations along lines that aid the practical farmer. The co-operation of all who are interested in the improvement of agricultural practice is invited.

The College of Law

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph. Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law and Professor of Law. Law Building.

HENRY H. WILSON, A. M., LL. M., Professor of Law. Law Building.

EDWIN MAXEY, Ph. M., D. C. L., Professor of Public Law and Diplomacy. Law Building.

ERNEST BANCROFT CONANT, A. B., LL. B., Professor of Law. Law Building.

CHARLES AUGUSTUS ROBBINS, Ph. M., LL. B., Professor of Law. Law Building.

JOHN JAMES LEDWITH, B. Sc., LL. B., Adjunct Professor of Law. Law Building.

ADDISON ERWIN SHELDON, A. M., Director of the Legislative Reference Bureau; Instructor in Contemporary Legislation. University Hall, 6.

GEORGE NIMMONS FOSTER, Ph. B., LL. B., Assistant Professor of Law. Law Building.

SAMUEL JOHNSON TUTTLE, A. M., LL. B., Ex-Judge of the District Court, Instructor in Real Property, Lecturer on Land Titles. Security Mutual Life Building.

ADDISON SEABURY TIBBETS, B. C. E., Ex-Judge of the District Court; Lecturer on Professional Ethics. Richards Block.

CLAUDE COPLEY FLANSBURG, Lecturer on Advocacy. Fünke Building.

* Leave of absence.

THE COLLEGE OF LAW

As a place for study, the modern law school has great superiority over the law office. Experience has shown that in the large majority of cases the preparation of those who study in law offices is very imperfect both as to the work accomplished and as to the methods employed. Among law schools, moreover, those which form part of a university community offer many advantages in the way of free lecture courses, opportunities for pursuing kindred studies, general library facilities, students' societies and clubs not to be had in an independent law school or in a university law department which is located apart from the university's other schools and college. The College of Law of the University of Nebraska is a modern law school in the center of a large and growing university community.

COURSES AND DEGREES

Three-Year Course. Three years of undergraduate work in the College of Law and one preliminary year of academic study are necessary for the degree of Bachelor of Laws.

Six-Year Combined Academic and Law Course. Fourth-year students in the College of Arts and Sciences may elect courses in the department of Jurisprudence and Public Law which count towards the degree of Bachelor of Laws, and not to exceed twelve hours a week each semester of the first-year studies in the College of Law. These subjects count towards the degree of Bachelor of Arts or of Bachelor of Science. By this arrangement, a student is enabled to complete a combined course of study in six years and receive the two degrees. The student expecting to take this combined course of six years must declare his intention before taking his first degree and must pay the regular fees of the College of Law.

ADMISSION TO THE COLLEGE OF LAW

No distinction among students is made on account of sex or place of residence.

Entrance Credits. By enactment of the Nebraska Legislature, no person may be admitted to the bar without "a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high school course accredited by the state department of public instruction." The preliminary educational requirements for admission

to the College of Law are much higher. To enter the first-year class in this college each candidate must present entrance "credits" for high school work equal to 30 "points" or a total of 150 recitation hours* and, in addition, one year of college work of at least 30 hours. Conditional admission is permitted on a minimum of 28 credit points or 140 recitation hours and the one preliminary year of academic study. Candidates who are not graduates of a secondary school accredited to the University or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity; the degree will not be granted until such conditions are removed. Persons at least 21 years of age, unable to meet the entrance requirements may be admitted as special students, not candidates for the degree. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for the degree. Persons presenting diplomas or certificates from recognized universities and colleges in good standing or from accredited high schools, normal schools, and academies, are admitted without examination, to whatever standing their credentials entitle them. The requirements for entrance are as given below. The time element indicated with each subject is essential.

Entrance Subjects (30 points). The 30 points* required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

*A "credit point" means the work in a high school subject of five recitations a week, of not less than 40 minutes each, during a period of at least 18 weeks. In laboratory courses, it means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

In preparing for entrance to the College of Law, students are urged to give their time chiefly to Latin, History, and English, since these subjects are found to be of especial value. In no case will a candidate be admitted to the College of Law whose written composition is deficient in grammar, spelling, punctuation, and paragraphing.

Required Subjects—

	Points
English	4
History (European) (a)	2
Language (Foreign) (b)	6
Mathematics (c)	4
Science (Laboratory) (d)	2

Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school	12
Total.....	30

- (a.) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b.) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c.) Mathematics: For entrance to College of Agriculture four points are required. Advanced Algebra and Solid Geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- (d.) Science: It is recommended that Physics be offered in meeting the science requirement.

Advanced Standing. A credit hour is given for a subject carried one hour a week for a semester. Thus, "Contracts" counts six credits, "Torts" four credits, etc. Applicants possessing the required preliminary education are admitted to advanced standing as follows:

To the Second-year Class.—(1) Any person at least nineteen years of age who has attended for one year another law school having an approved course equivalent to the first-year course in this College and who upon examination obtains at least twenty-four credits. (2) Any person who has received the bachelor's degree from one of the general colleges of the University and has completed work in the College of Law equal to at least twenty-four credits.

To the Third-year Class.—Any person at least twenty years of age, who has attended for two years an approved law school, and who upon examina-

tion obtains a total of at least fifty credits. The degree of Bachelor of Laws is not conferred on persons who have not attended approved law schools three years, including at least full attendance for the last year at this College.

To Advanced Credits in General.—At the discretion of the Dean of the College of Law, credit may be given without examination for work satisfactorily completed at other approved law schools offering courses equal to those given in this school, but in no case will credit be given except upon presentation of a certificate for work in residence at an approved law school. A student who has been allowed credit in any course, and who fails on any of the examinations which he has been required to take in other courses for which he has not been allowed credit, may be required to take any or all of the work for which credits have been allowed. Students who apply for advanced standing on examination are charged an examination fee of \$10.

Adult Special Students. Persons of suitable preliminary training, not candidates for a degree, may be admitted at any time, without examination, upon payment of the required fees. They must first make application to the Registrar as in the case of regular students. Persons preparing for the state bar examinations and business men not intending to practice law as a profession are admitted as such special students. The same diligence, industry, punctuality and proficiency are required of special students as of candidates for the degree. Students are not permitted to abuse this privilege of special registration by making it a means of securing merely nominal membership in the University, whether for social or athletic purposes or for any other reason.

Registration. Registration in the College of Law takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. Entrance examinations are held during the week of registration. To promote prompt registration, a special fee of \$3 is charged a student who, unless excused by the Chancellor, for any reason seeks to register later than the regular days set aside for this purpose. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5 and no student is permitted to change from one college to another without written permission to the Registrar from the Dean of each

college concerned. Students may not attend classes for which they are not registered, and credit is not given for studies pursued without registration. Any change in a student's residence must be reported immediately to the Registrar. When a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him, upon application, permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

Student Adviser. The Dean of the College is the student's adviser. He has daily consultation hours when students may call seeking advice and encouragement in their work. Leave of absence for a brief period is granted a student by the Dean. This leave is merely a justification for the absence and is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

FEES AND EXPENSES

Fees must be paid upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. No extra fees are charged to students from other states. No student may enroll in classes or take any private examination until his fees are paid. The schedule of fees in the College of Law is as follows:

Matriculation fee (payable only on first registration).....	\$5
Library fee, each semester.....	1
Incidental (6-year combined course), each semester.....	3
Diploma fee	5
Diploma fee, <i>in absentia</i> , additional.....	10
Tuition fees:	
Annual tuition, payable \$25 for the first semester and \$20 for the second semester	45
For one semester only	25
Special students, for one topic, each semester.....	12
Examination fees:	
For advanced standing.....	10
For all who require special examination.....	2

Expenses. The cost of table board to students in Lincoln ranges from \$3 to \$5 a week. The cost of lodging ranges from \$2.50 to \$10 a month, the usual cost being from \$4 to \$5 where two students occupy the same room. The usual cost of combined board and lodging is from \$18 to \$20. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the College do not, however, undertake to find employment for students. Under the direction of the Registrar's office, the Young Men's Christian Association of the University maintains an employment bureau.

REQUIREMENTS FOR GRADUATION

Regular students who have completed the course of instruction to the satisfaction of the faculty of the College of Law and the Board of Regents of the University receive the degree of Bachelor of Laws. Students whose time and means do not permit them to complete the course receive certificates of proficiency according to the merit and extent of their work.

Grades. From September 1, 1913, no student will be recommended for graduation whose general average is below 70 per cent.

No student is recommended for graduation who is not within 18 hours of the requirement at the beginning of his last semester.

ADMISSION TO THE BAR

Under the statutes of Nebraska, admission to the bar is to be had in the Supreme Court only, and is governed by rules established by that court. The statutes now provide as follows: "No person shall be admitted to the bar unless such person is at least twenty-one years of age and of good moral character, and unless such person either (1) has had a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high-school course accredited by the State Department of Public Instruction, and has regularly and attentively studied law in a reputable law school or in the office of a practicing attorney, or partly in such school and partly in such office, for a period of at least three years, at least one year of which office study shall have been passed in a law office in this state, and shall pass a satisfactory examination upon the principles of the common law, equity, criminal law, statutes and practice of this state; or (2) is a regular graduate of the College of Law of the University of Nebraska, or of such other college of law of this state having

entrance requirements and a course of study equal to and equivalent to those of the law school of the University of Nebraska as the Supreme Court shall, upon application and showing, designate as a College of Law whose graduates shall be entitled to admission without examination; Provided, that such other College of Law shall be a member of the Association of American Law Schools. Provision shall be made by rule of court for the registration of students in law offices in this state at the beginning of their respective terms of study in the office of the clerk of the Supreme Court or the office of the clerk of the District Court in the county in which any such law office is located." The College of Law of this University is a member of the Association of American Law Schools and graduates of the College of Law are admitted to practice in Nebraska on motion without examination other than that sustained prior to graduation.

COURSE OF INSTRUCTION

The course of instruction in the College of Law extends through three years of thirty-six weeks each exclusive of vacations. The design of the course is two-fold: (1) To afford the training in the fundamental principles of the common law essential to the practice of the profession in any jurisdiction where that system obtains. (2) To acquaint the student with the special subjects of immediate or local importance in Nebraska and neighboring states and to instruct him thoroughly in the peculiarities of substantive law and procedure in those jurisdictions, so as to enable him to enter upon the practice understandingly at once, without any further term of practical instruction in an office. In addition, bearing in mind the extent to which the legislative and executive departments are recruited from the bar, and the part which the profession must take in legislation of all kinds, as well as in the progress and reform of the law, it is designed to stimulate an intelligent and enduring interest in the history and science of law, in order to make not merely practitioners, but lawyers in the fullest sense. With the additional requirement of one year of college work by way of preparation it is hoped that the student may be saved from what seems the most besetting error in regard to law and society, a wholly mechanical conception of them and of possible changes in them. The following program of study is made with these ends in view:

REQUIRED COURSES

FIRST YEAR—FIRST SEMESTER

Common Law Pleading—Ames' Cases on Pleading. Two hours attendance. Two hours credit. Conant

Contracts—Williston's Cases on Contracts. Three hours attendance. Three hours credit. Robbins

Criminal Law and Procedure—Mikell's Cases on Criminal Law; the Nebraska Criminal Code. Three hours attendance. Three hours credit. Maxey

History and System of the Common Law—A general survey of the legal system of English-speaking countries; courts, their organization and

jurisdiction. Selected cases; Blackstone's Commentaries, Book III; Street's Foundations of Legal Liability, vol. 3. Two hours attendance. Two hours credit. Hastings

Property I—Gray's Cases on Property, vol. 1; Kirchwey's Readings on the Law of Real Property. Two hours attendance. Two hours credit.

Conant

Torts—Ames & Smith's Cases on Torts, vol. 2. Two hours attendance. Two hours credit. Wilson

FIRST YEAR—SECOND SEMESTER

Agency—Huffcut's Cases on Agency. Two hours attendance. Two hours credit. Robbins

Common Law Pleading (Concluded)—One hour attendance. One hour credit. Conant

Contracts (Concluded)—Three hours attendance. Three hours credit. Robbins

Domestic Relations—Woodruff's Cases on Domestic Relations. One hour attendance. One hour credit. Conant

Equity Jurisdiction I—Keener's Cases on Equity Jurisdiction, vol. I. Two hours attendance. Two hours credit. Hastings

Practice in Justices' Courts—Selected cases; Cobbey's Student's Code of Nebraska. One hour attendance. One hour credit. Ledwith

Property I (Concluded)—Gray's Cases on Property, vol. 2. Two hours attendance. Two hours credit. Conant

Torts (Concluded)—Ames & Smith's Cases on Torts, vol. 1. Two hours attendance. Two hours credit. Wilson

SECOND YEAR—FIRST SEMESTER

Code Pleading—Hinton's Cases on Code Pleading. Three hours attendance. Three hours credit. Ledwith

Equity Jurisdiction II—Keener's Cases on Equity Jurisdiction, vols. 2 and 3. Three hours attendance. Three hours credit. Hastings

Equity Pleading—Thompson's Cases on Equity Pleading. One hour attendance. One hour credit. Conant

Evidence—Thayer's Cases on Evidence. Two hours attendance. Two hours credit. Wilson

Property II—Gray's Cases on Property, vol. 3. Two hours attendance. Two hours credit. Conant

Quasi-Contracts—Scott's Cases on Quasi-Contracts. Two hours attendance. Two hours credit. Robbins

• SECOND YEAR—SECOND SEMESTER

Bills and Notes—Smith & Moore's Cases on Bills and Notes. Three hours attendance. Three hours credit. Robbins

Code Practice—Bringing an action; provisional remedies; Nisi prius; judgment, execution, appellate procedure. Pound's Cases on Practice; Cobbe's Student's Code of Nebraska. Wheeler's Compiled Statutes, Codes. Three hours attendance. Three hours credit. Hastings

Damages—Beale's Cases on Damages. One hour attendance. One hour credit. Conant

Evidence (Concluded)—Two hours attendance. Two hours credit. Wilson

Wills and Administration—Two hours attendance. Two hours credit. Robbins

Trusts—Ames' Cases on Trusts. Three hours attendance. Three hours credit. Conant

THIRD YEAR—FIRST SEMESTER.

Constitutional Law—Thayer's Cases on Constitutional Law, vol. 1. Two hours attendance. Two hours credit. Hastings

Federal Procedure—Selected cases. One hour attendance. One hour credit. Wilson

Insurance—Selected cases. One hour attendance. One hour credit. Robbins,

Mortgages—Kirchwey's Cases on Mortgages. Two hours attendance. Two hours credit. Hastings

Partnership—Burdick's Cases on Partnership. Two hours attendance. Two hours credit. Conant

Private Corporations—Smith's Cases on Private Corporations. Two hours attendance. Two hours credit. Maxey

Property III—Gray's Cases on Property, vol. 5. Three hours attendance. Three hours credit. Tuttle

THIRD YEAR—SECOND SEMESTER

Constitutional Law (Concluded)—Thayer's Cases on Constitutional Law, vol. 2. Three hours attendance. Three hours credit. Hastings

Municipal Corporations—Smith's Cases on Municipal Corporations. One hour attendance. One hour credit. Conant

Public Service Companies—Beale and Wyman's Cases on Public Service Companies. Two hours attendance. Two hours credit. Maxey

Private Corporations (Concluded)—Two hours attendance. Two hours credit. Maxey

Property III (Concluded)—Gray's Cases on Property, vol. 6. Two hours attendance. Two hours credit. Tuttle

Sales—Burdick's Cases on Sales. Two hours attendance. Two hours credit. Robbins

Suretyship and Guaranty—Wilson's Cases on Suretyship and Guaranty. One hour attendance. One hour credit. Wilson

ELECTIVES

At least eight hours of work in the elective courses must be presented for the degree.

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS AND, UPON CONSENT OF THE DEAN, TO FIRST-YEAR STUDENTS

Administrative Law I (PUBLIC LAW 3)—Public officers; extraordinary legal remedies. Goodnow's Cases on the Law of Officers. First semester. Two hours attendance. Two hours credit. Maxey

Administrative Law II (PUBLIC LAW 4)—Taxation. Goodnow's Cases on Taxation. Second semester. Two hours attendance. Two hours credit. Maxey

Analytical and Historical Jurisprudence (JURISPRUDENCE 3)—Second semester. Three hours attendance. Three hours credit. Maxey

International Law I (PUBLIC LAW 6)—Maxey's International Law. First semester. Three hours attendance. Three hours credit. Maxey

International Law II (PUBLIC LAW 7)—Advanced Course. Second semester. Two hours attendance. Two hours credit to students who do not present International Law I. Maxey

Admiralty Law—Ames' Cases. Two hours attendance. Two hours credit. Second semester. Maxey

Roman Law (JURISPRUDENCE 2)—History and Institutes. First semester. Two hours attendance. Two hours credit. (*Given in 1912-1913 and alternate years.*)

Practical Legislation (POLITICAL SCIENCE 33 and 34)—Drafting and criticism of legislative bills and information briefs with Legislative Reference Bureau. Practice work at State House January to April of odd-numbered years. Open to second and third-year, and, on the approval of the Dean, to first-year law students. Sheldon

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS ONLY

Bankruptcy—Williston's Cases on Bankruptcy. First semester. Two hours attendance. Two hours credit. Robbins

Conflict of Laws—Beale's Cases on the Conflict of Laws. Minor's Conflict of Laws. Second semester. Two hours attendance. Two hours credit. Hastings

Irrigation Law—Selected cases. First semester. One hour attendance. One hour credit. (*Given in 1913-14 and alternate years.*)

Mining Law—Selected cases; Costigan's American Mining Law. First semester. One hour credit. Conant

(This course will be given in 1912-1913 and alternate years. For the benefit of the students in this course, Professor Condra, of the department of Geography and Conservation, will give two illustrated lectures on the origin of ores and ore deposits, mining, prospecting and mining operations. Arrangements for other special lectures not completed.)

OPEN TO THIRD-YEAR STUDENTS ONLY

Conveyancing—Practical exercises in conveyancing, examining abstracts of title, and drafting papers, under the personal supervision of the instructor. Pound's Exercises in Conveyancing. Second semester. Two hours attendance. Two hours credit. Ledwith

EXTRA COURSES (NO CREDIT)

Bar Examination Review—A general review of the more important topics of the law, based upon questions used at bar examinations. Open to third-year students only. Second semester. Hours to be arranged.

Robbins, Hastings, Maxey, Conant

Business Law—A course in business law with special reference to the needs of engineers. Credited in the engineering departments, but not in the College of Law. Open to all College of Law students. Second semester. Two hours attendance. Conant

PRACTICE AND PRACTICE COURTS

In addition to the courses in practice, in which instruction is given in the principles and general rules of procedure in state and federal courts, practice courts are maintained in order to afford the student an opportunity of acquainting himself with the various steps in an orderly litigation, and of learning by actual experience to determine what proceedings to bring, how to bring them, and how to conduct causes to a final determination. The work in these courts is required. Every effort is made to reproduce the conditions of actual practice. First year students serve as parties, witnesses and jurors. Second year students serve as justices of the peace, constables, sheriffs, clerks of the courts of record and practicing attorneys. Third year students serve as county attorneys and in some cases as judges of the various courts of record and practicing attorneys. Three members of the faculty serve as judges at the sessions of the county and district moot courts which are held each Friday afternoon.

The parties and witnesses are advised of the facts of the controversy by the instructor and the student who acts as counsel discovers the matter at issue and the testimony he may adduce in support of his contentions by consultation with the party for whom he appears and his witnesses. He then determines the form of action or proceeding, sues out and returns process, prepares pleadings and takes all steps required to bring the cause to trial. The trial is attended by an instructor, who gives personal instruction in trial procedure, preparation of instructions, verdicts, and journal entries, making motions for new trial or in arrest of judgment, settlement of bills of exceptions, supersedeas, and procedure on appeal.

Each student is required during the second year to try at least one case in an inferior court, and to take it by appeal to the district court. In the third year each student is required to take part in at least two causes, one at law and one in equity, in the district court, and on appeal in the supreme court. A county court is also provided to furnish practice in the probating of wills and the administration of estates.

Further practical exercises in drawing the proper papers or instruments to meet the facts of hypothetical cases are provided in the courses in pleading, in practice, and in conveyancing. The student is never allowed to lose sight of the fact that he is being fitted to practice his chosen profession.

COLLEGE OF LAW LECTURE COURSE

A course of lectures by prominent members of the bench and bar has been provided. The lectures are upon practical topics from the standpoint

of the practitioner, and, among other subjects, will deal with patent, copyright and trademark law, the preparation of causes for trial, the presentation of causes to court or jury, the examination of witnesses and other branches of advocacy, land titles, professional ethics, commercial business, collections and adjustments, the organization and management of business corporations, office economy and the selection of a library.

METHOD OF INSTRUCTION

The College of Law follows in the main the "Case" or "Source" method of teaching law. Instead of studying text-books upon which to recite, the students summarize, and prepare to expound and to comment upon in class, the important cases to which the text writers themselves must go for the law. This resort to the sources is made under the guidance of experienced instructors who supplement the class discussion of the cases with such information as the students require to enable them to understand the cases and the topics to which the cases relate. Students are often advised, and sometimes required, to read particular text-books, to supplement the work in the cases, and whenever there is occasion to do so the instructors lecture on particular legal problems. The great aim of the class work is to increase the student's accuracy of legal perception, his ability to analyze cases and extract the right principles from them, and his power to apply those principles to such more or less complicated facts as normally arise in legal practice; and especially to get an accurate acquaintance with legal relations as underlying legal rules.

LIBRARIES

Students in the College of Law have access to various libraries, aggregating 286,500 volumes.

The College of Law library, which contains over 7,500 volumes of standard reference and text-books on the common law and of American and English law reports, is a branch of the University Library.

The University Library of 106,000 volumes includes the standard authorities and works of reference on international law, Roman law, jurisprudence and public law.

The State Library of 80,000 volumes at the Capitol is one of the best law libraries in the West, containing the law reports and statutes of all English-speaking jurisdictions.

The Lincoln City Library contains 33,000 volumes.

The Nebraska State Historical Society Library contains 60,000 volumes.

PRIZES AND HONORS

Excellence in First-Year Studies. (1) For the three members of the first-year class who obtain the highest rank in the studies of the first semester, Dr. Roscoe Pound, formerly Dean of the College of Law, offers prizes—books to be selected by the donor. In 1912 these prizes were awarded to Frank Dean Williams, Lamont Levern Stephens and Ralph Wallace Garrett respectively. (2) For the member of the first-year class whose scholarship in the second semester displays the most marked improvement over that in the first semester, and who attains a grade of "E" in all his second-semester studies, Dr. Roscoe Pound also offers a prize—a book or books to be selected by the donor. No award in 1912.

Callaghan & Company Prize. Callaghan & Company, Law Publishers, Chicago, offer a prize, consisting of a set of Andrews' American Law and Procedure in two volumes, to the most proficient student in the course on "History and System of the Common Law." No award in 1912.

Legal Bibliography Prize. To promote a practical knowledge of legal bibliography, the Dean of the College offers a prize, open to all students—any standard legal treatise, to be selected by the winner. This prize is awarded upon an examination held in the law library at the beginning of the second semester. The examination is both oral and written, embracing the principal reports, American and English, standard abbreviations and modes of citation, standard text-books, search for cases in the reports, identification of cases imperfectly cited, and use of digests. No award for 1912.

Oratory. The College of Law offers a first prize of \$35 and a second prize of \$15 for the best orations to be written and delivered by the regular students of the College of Law and the College of Medicine and by regular undergraduate students who have attained junior standing in the College of Arts and Sciences. The rules and regulations governing the oratorical contest are framed by the faculty of the College of Law. It is expected that the contest will occur sometime in April. In 1911-1912 the first prize was awarded to David Mills Rogers.

The American Law Book Company Prize. The American Law Book Company offer as a prize for the best brief upon some legal question or case to be given out by the Law College faculty, a copy of their Student's Edition of Cyc. The competition is open to members of the second and third-year classes in the Law College.

William Jennings Bryan Prize. For the best essay on the science of

government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. No award in 1912.

Theta Kappa Nu. The Theta Kappa Nu, the law scholarship fraternity, the Nebraska chapter of which was established in 1904, elect not less than one-tenth nor more than one-sixth of the graduating class, solely on the basis of scholarship as shown by grades attained in the required law work for the entire course. At present this fraternity is being transferred into the "Order of the Coif."

ADVANTAGES AND PRIVILEGES

Courts. The College of Law has commodious quarters in the recently completed Law Building, within a few blocks of the law offices and courts. The Supreme Court, the District Court (in three divisions), the County Court and various minor courts are almost constantly in session during the school year. In addition to the various State Courts, the Circuit and District Courts of the United States for the District of Nebraska hold two terms in Lincoln each year. Exceptional facilities are thus afforded the student to hear the arguments of able counsel and to become acquainted with the workings of courts.

Legislature. The student has the opportunity each alternate year of attending the session of the Nebraska Legislature, where he may observe the process and forms of legislation. The course in legislation, given as a College of Law elective, brings students who take it in close touch with the work of the legislature.

General College Privileges. A student in the College of Law may without paying additional fees, register for not more than five hours of work in the College of Arts and Sciences. Credit in the general colleges is not applied toward the degrees of those colleges, however, unless the matriculation and other fees of those colleges are regularly paid. Students taking advantage of this rule may not change their registration in the general college or drop any of the subjects registered for therein without paying the re-registration fee of \$3. Subjects peculiarly suitable to law students are American history, argumentation, comparative government, constitutional history, debate, diplomacy, English institutional history, ethics, political economy, political history, political science, public speaking, and sociology.

Gymnasium. The gymnasium is open to students of the College of Law. It is in charge of experts in physical training, who advise each student as to the character and amount of physical exercise adopted to his case.

The College of Medicine

OFFICERS OF ADMINISTRATION AND INSTRUCTION IN LINCOLN

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College of Medicine.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology.

BENTON DALES, Ph. D., Professor of Chemistry.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Pharmacology and Director of the School of Pharmacy.

WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.

CHARLES WILLIAM McCORKLE POYNTER, B. Sc., M. D., Professor of Human Anatomy.

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

HIRAM WINNETT ORR, M. D., Assistant Professor of the History of Medicine.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry.

GEORGE HEMAN WALKER, M. D., Adjunct Professor of Anatomy.

JAMES F. STEVENS, A. M., M. D., Adjunct Professor in Charge of Materia Medica.

LAWRENCE B. PILSBURY, A. B., M. D., Adjunct Professor of Bacteriology and Pathology.

IRVING SAMUEL CUTTER, B. Sc., M. D., Adjunct Professor of Chemistry, Secretary of the Faculty at Omaha and Director of the Laboratory.

JOHN JACOB PUTNAM, A. M. Adjunct Professor of Bacteriology and Pathology.

HENRY JOHN LEHNHOFF, A. B., M. D., Instructor in Surgery.

DAVID CLARK HILTON, A. M., M. D., Instructor in Anatomy.

J. STANLEY WELCH, B. Sc., M. D., Instructor in Physical Diagnosis.

EDWARD WINFIELD ROWE, B. Sc., M. D., Instructor in Materia Medica.

Committees of the Faculty in Lincoln

Course of Study—the Dean (chairman), Professors Waite, Dales, Lyman, Doctor Pilsbury.

Publication—Professor Orr (chairman), Professors Guenther, Willard.

Advanced Standing—The Chancellor, the Dean, and the Inspector of High Schools.

Schedule of Classes—Professor Dales (chairman), Professor Barker, Doctor Rowe, the Registrar.

Convocation and Review Courses—Professor Lyman (chairman), Professors Guenther, Poynter, Doctors Welch and Cutter.

OFFICERS OF ADMINISTRATION AND INSTRUCTION IN OMAHA

WILLSON ORTON BRIDGES, M. D., Dean of the College of Medicine and Professor of the Principles and Practice of Medicine and Clinical Medicine.

HAROLD GIFFORD, B. Sc., M. D., Professor of Ophthalmology and Otology.

RICHARD CHANNING MOORE, M. D., Professor Emeritus of Diseases of the Mind.

WILLIAM FORSYTH MILROY, M. D., Professor of Clinical Medicine and Physical Diagnosis.

AUGUST FREDERICK JONAS, M. D., Professor of the Practice of Surgery and Clinical Surgery.

HARRY MONROE McCLANAHAN, A. M., M. D., Professor of Pediatrics.

BYRON BENNETT DAYIS, A. B., M. D., Professor of the Principles of Surgery and Clinical Surgery.

FRANK STYLES OWEN, M. D., Professor of Laryngology and Rhinology.

ANDREW BARTHOLOMEW SOMERS, M. D., Professor of Obstetrics.

SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.

JOSEPH MELANCHTHON AIKIN, M. D., Professor of Nervous and Mental Diseases.

PALMER FINDLEY, A. M., M. D., Professor of Didactic and Clinical Gynecology.

ALFRED SCHALEK, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases.

ARTHUR CHARLES STOKES, B. Sc., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy.

CHARLES WHITNEY POLLARD, A. B., M. D., Adjunct Professor of Obstetrics.

JAMES SAMUEL GOETZ, M. D., Adjunct Professor of Therapeutics.

BURTON WHITFORD CHRISTIE, B. Sc., M. D., Instructor in Pediatrics.

- ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.
- RODNEY WALDO BLISS, B. Sc., M. D., Instructor in Clinical Pathology and Internal Medicine.
- ROBERT RUSSELL HOLLISTER, A. B., M. D., Instructor in Surgery and Gynecology.
- CHARLES REX KENNEDY, M. D., Instructor in Surgery.
- HENRY BASSETT LEMERE, M. D., Instructor in Ophthalmology and Otology.
- ERNEST TIBBETS MANNING, M. D., Instructor in Medicine.
- WILLIAM PENALUNA WHERRY, M. D., Instructor in Laryngology and Rhinology.
- CHARLES CAMPBELL MORISON, A. B., M. D., Instructor in Surgery.
- CHARLES AARON HULL, M. D., Instructor in Surgery.
- JAMES McDOWELL PATTON, A. M., M. D., Instructor in Ophthalmology and Otology.
- ALFRED JEFFERSON, M. D., Instructor in Therapeutics.
- GLYNDON ALEXANDER YOUNG, M. D., Instructor in Mental and Nervous Diseases.
- NORA MAY FAIRFIELD, M. D., Clinical Assistant in Gynecology.
- JOHN CLYDE MOORE, JR., B. Sc., M. D., Clinical Assistant in Medicine and Superintendent of Dispensary.
- HOWARD BROWNLEE HAMILTON, M. D., Clinical Assistant in Medicine.
- CLARENCE RUBENDALL, B. Sc., M. D., Clinical Assistant in Laryngology and Rhinology.
- JOHN B. POTTS, M. D., Clinical Assistant in Ophthalmology and Otology.
- WILLIS HARVEY TAYLOR, B. Sc., M. D., Instructor in Obstetrics.
- AUGUSTUS DAVIS CLOYD, M. D., Lecturer on Life Insurance Examinations.
- ALFRED ONIAS HUNT, D. D. S., Lecturer on Dental Surgery.
- GEORGE MOGRIDGE, M. D., Lecturer on Arrested Development, Glenwood, Iowa.
- ERNEST CLIFFORD PAGE, Ph. M., LL. B., Lecturer on Medical Jurisprudence.

DISPENSARY STAFF

Superintendent of Dispensary—Dr. Moore.

Internal Medicine—Professors Bridges and Milroy; Assistants, Doctors Hamilton, Moore and Anderson.

Surgery—Professors Jonas, Davis and Stokes; Assistants, Doctors Nielson and Lieber.

Eye and Ear—Professor Gifford; Assistants, Doctors Potts and Callfas.

Nose and Throat—Professor Owen; Assistant, Doctor Rubendall.

Pediatrics—Professor McClanahan; Assistants, Doctors Moore and Anderson.

Obstetrics—Professor Somers; Assistant, Doctor Pollard.

Gynecology—Professor Findley; Assistants, Doctors Fairchild, Van Fleet, and Lieber.

Nervous Diseases—Professor Aikin.

Dermatology—Professor Schalek.

Genito-Urinary Surgery—Associate Professor Stokes.

Drug-Room—Andrew Harvey, B. Sc.

Committees of the Faculty in Omaha

Students and Examinations—Professors Jonas and Milroy.

Faculty and Catalog—Professors Gifford and Findley.

Clinics and Lectures—Professors Bridges and Owen.

Laboratories and Dispensary—Professors Jonas and Findley.

Finance and Supplies—Professors Owen and Somers.

Employees—Professors Somers and Bridges.

Commencement and Entertainment—Professors Davis and Gifford.

Building, Grounds and Repairs—Professors Milroy and Davis.

ORGANIZATION OF THE COLLEGE OF MEDICINE

By an agreement entered into in May, 1902, the Omaha Medical College became the College of Medicine of the University of Nebraska. The College thus incorporated into the University was founded in 1880 and had experienced strong and steady growth. As an integral part of the University, and gathering strength from that connection, the College has gone rapidly forward. The requirements for entrance have been raised step by step, keeping pace with those of the better class of medical colleges, and now are on a plane generally recognized as the highest practical for colleges the primary aim of which is the training of practicing physicians.

The work of the first two years has up to the present been carried on at Lincoln. Here the laboratories of the University, directed by well trained and experienced teachers, who devote their entire time to instruction, and with equipment adequate for thorough instruction in the ordinary subjects of the medical course, furnish a preparation which is a substantial basis for the clinical work. The work of the last two years has been done at Omaha, where are afforded clinical facilities more than ample for all purposes of undergraduate medical instruction.

The State Legislature of 1909 appropriated funds with which to purchase a site for a medical campus in Omaha and the Legislature of 1911 voted another appropriation of \$100,000, for a laboratory building on this campus. This building, now under construction, is the first of a group of buildings planned to provide ultimately a complete medical college plant.

It is expected that with the completion of this building during the current session, removal can be effected in such time as to permit the offering of all four years of the course in Omaha, after September, 1913.

This removal will inevitably involve many changes, of which announcement cannot now be made. This catalog is therefore issued as a catalog for the year 1912-13, and a supplementary announcement for the year 1913-14 will be published later.

STANDING

The College of Medicine meets the requirements of the most exacting state examining and licensing boards and its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. The Royal Colleges of Physicians and Surgeons in England has added the University of Nebraska to the short list of American institutions whose Graduates in Medicine may, on production of the required certificate of

study, be admitted to the final examination before the Examining Board in Medicine, Surgery and Midwifery, which places them on the same basis as graduates of the best English colleges. This recognition is of especial interest to those students who are planning to take up work in foreign lands as medical missionaries.

METHODS OF INSTRUCTION

The course of study in medicine covers four years, there being in each of the first three years thirty-four weeks of class work and in the senior year thirty-two, exclusive of all registration and examination days. During the first two years those laboratory sciences are pursued which form the basis for the clinical studies of the last two. The objective method is followed, not only in the laboratories, but also in the clinical instruction, where constant reference is made to the facts acquired from laboratory work in the fundamental branches. Emphasis is in all cases placed on individual effort on the part of the student, of whom is required work as independent as is consistent with the further demand that he thoroughly cover the field.

The course embraces also didactic and clinical lectures, in which effort is made by charts, models, experiments, demonstrations and other appropriate means to broaden the mind of the student and to coordinate the facts acquired in laboratory and clinic. Frequent quizzes and examinations test the student's progress in each line of work.

The College affords unique opportunities for the most thorough instruction. The moderate size of the classes insures close contact between student and instructor, which is of the utmost importance in securing an exact knowledge of the fundamental branches. The sectional method of clinical work also brings the individual student in intimate contact with his clinical instructors, affords him an opportunity to study each case thoroughly and at short range, and allows him to secure a very unusual amount of bedside instruction.

The student is urged to add to his preparation a fifth year taken as an interne in some hospital, or spent in some laboratory, and provision is made whereby the student may secure on the completion of this year a second degree—Doctor of Medicine *cum laude*. But this fifth clinical year is yet optional.

Six-year Combined Course. In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by

two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This can only be accomplished by following closely the course as outlined in later pages of this catalog. A student registered for the degree of Bachelor of Arts may arrange a similar course by the same use of his electives, but he will probably find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

ADMISSION TO THE COLLEGE OF MEDICINE

Entrance Requirements. For admission to the College of Medicine a candidate must present credentials showing that he has completed (1) a standard four-year high-school course entitling him to 30 entrance credits or "credit points"* equivalent to those laid down as the minimum requirements of the Association of American Medical Colleges, and (2) two years of college work in this University or some other reputable college or university, including at least a year each of chemistry, physics, zoology, and German. This means that the graduate in medicine must have had at least six years of work above the four-year high-school course. The difference between the six-year combined course and the four-year course preceded by the required two college years lies in the fact that all of the work of the two preparatory years of the latter not being prescribed, there is latitude of election which will be of advantage to A. B. students and those who come from other colleges and universities and who do not seek a B. Sc. degree here. Two points of some importance should be noted in connection with this extended course. The initial years, if taken at the University of Nebraska, are not subject to the fees of the professional course, but demand only the moderate laboratory fees required of the general scientific student. Secondly, the work may be taken at any college of standard entrance requirements. There are many colleges which cover the introductory work noted in an eminently satisfactory manner, and in such cases

* An entrance credit or "credit point" is given for the work of a class holding five recitations a week, of from 40 to 50 minutes each, for at least 18 weeks. In laboratory courses a credit or "credit point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least 18 weeks.

the student with proper credentials may enter directly into the first year of professional work in medicine, i. e., of the four-year course.

For admission to the six-year combined course, the candidate must meet the entrance requirements demanded by the College of Arts and Sciences, which are 30 credit points. Conditional admission to the College of Arts and Sciences is permitted on a minimum of 28 entrance credits or "credit points" to graduates of accredited secondary schools; but all such conditions must be removed before the student may be admitted to the College of Medicine. Women are admitted to the College of Medicine on the same terms as men.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

Required Subjects--	Points
English	4
History (European) (a)	2
Language (Foreign) (b)	6
Mathematics	4
Science (Laboratory) (c)	2
Elective Subjects--	
Other subjects taught in an approved manner in an accredited secondary school	12
Total.....	30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c) Science: It is recommended that Physics be offered in meeting the science requirement. While Chemistry is not among the required entrance points, students will find it of great advantage to have a year of high school chemistry for entrance.

College Credits. To fulfil the two years college requirement demanded for entrance to the College of Medicine the prospective student must present credentials showing the completion of work equivalent to 60 university "hours" and including:

Physics, 6 hours; Zoology, 6 hours; Chemistry, 10 hours; German, 10 hours.

Conditional admission is allowed with a minimum of 51 hours if the character of the student's preparation is such that during the first year and the following Summer Session, in which is permitted registration up to 9 credit hours, all deficiencies can be removed and the work of the first year also be completed in full.

Entrance from "Accredited" Schools. The University maintains a list of "accredited" high schools and academies whose *graduates* are admitted to any undergraduate college or school of the University without examination in those subjects in which their work is duly certified. A candidate for admission submitting credentials from a non-accredited school or from an accredited school without being graduated must be prepared to take examinations. A student desiring to ascertain in advance of the opening of the school year whether or not he may be admitted to the freshman class should apply to the Registrar of the University or the Dean of the College of Medicine for blank credential slips; when these are properly filled out and returned, he will be informed at once whether or not his credentials are acceptable, and what will be required of him. In all cases the entrance credits are passed upon by the Registrar in frequent consultation with the Inspector of Accredited Schools. It is highly desirable that all candidates for admission forward their entrance credentials at least one month in advance. Although properly prepared students who cannot enter at the beginning of the year may be admitted later, all students who can possibly do so are urged to be present at the beginning of the year. Students entering late are at much disadvantage and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session. However, plans are made so that students who enter at the opening of the second semester may arrange a suitable program of work.

Advanced Standing. Advanced standing may be granted under the following conditions: (1) Applicants for advanced standing must offer admission credits equal to those required by this college. (2) In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the M. D. degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college. (3) Students

coming from other medical colleges of equal standing and maintaining the same entrance and course requirements are, on presenting certificates of honorable dismissal, admitted to the corresponding class in this institution. Students from medical colleges of less standing and not maintaining the same entrance and course requirements are only admitted to the class into which the subject credit secured entitles them to enter, and are also required to make up all entrance deficiencies. (4) There will be no change in the practice heretofore observed concerning subject credit, the granting of which is at the discretion of the head of each department, subject to the meeting of such conditions or the passing of such examinations as he may with reason impose. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the head of any department has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the student of this College, and in case the work is not equal to such requirement the deficiency stands against the student as a "condition" till removed. In case subject credit is granted in excess of that previously done by students of the class into which the applicant enters, he is free to use the time thus gained in such extra work as he may elect. Thus students who come from high grade colleges and have completed a portion of the required work may be enabled to pursue studies for a master's degree or to go into advanced courses in any department in which they are prepared to work.

Adult Special Students. When circumstances are such as to allow it without detriment to the work of candidates for degrees, a student not seeking a degree may be admitted as an unclassified "Adult Special" student. A junior or a senior in the College of Arts and Sciences may, with the consent of the department involved, take any of the courses offered in the College of Medicine by registering as an unclassified student in this College and paying the laboratory fees attached to the course or courses chosen and also a *pro rata* tuition fee; provided, however, that the tuition charge for any course in the College of Medicine so taken by a student in either of the general colleges shall in no case be less than \$5.00 a semester.

Registration. Certain days at the beginning of each semester are allowed for registration. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days. A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault. Any change

whatever in a registration once made is regarded as a re-registration. A student taking the college work required for entrance to the College of Medicine matriculates and registers in the College of Arts and Sciences until the necessary amount of college work is completed. A student taking the combined six-year course for the degrees of Bachelor of Science and Doctor of Medicine matriculates and registers only in the College of Arts and Sciences during the first two years of his work. He continues to register in the College of Arts and Sciences during the next two years, or until he receives his B. Sc. degree; but he must also matriculate and register in the College of Medicine at the beginning of the third year's work and must register regularly thereafter in the College of Medicine. If he is a candidate for the A. B. degree, he must begin to register also in the College of Medicine not later than the beginning of the fourth year of his course, as at least four years' registration in a college of medicine is required of all who receive the M. D. degree. No regular student is registered for less than twelve (12) hours a semester without the Dean's permission, nor under any condition for more than eighteen (18) hours. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered, without written permission from the Dean. Students cannot attend classes for which they are not registered and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Registrar.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is granted only under the following conditions:

1. The candidate must be twenty-one years of age.
2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission and must have paid all his fees.
4. He must have completed and have secured credit in all required subjects in the curriculum.
5. He must have pursued the study of medicine for at least four years and must have passed the necessary examinations and have received credit for at least four full years of instruction at medical colleges in good standing. The last year he must have taken in this institution.

Credit. In accordance with the Constitution of the Association of American Medical Colleges, each student is obliged to attend at least 80

per cent of the exercises in every annual course of study for which he seeks credit. No student is given credit on examination unless he obtains a grade of at least 70 per cent, and no credit is granted in any college course in which the student does not secure an equivalent grade. By vote of the clinical faculty the passing grade for medical students in the third and fourth years of the course is 75 per cent, which is the grade required in licensing examinations of the Nebraska State Board of Health.

Absence or Withdrawal. The Dean of the College of Medicine is the adviser of all students in the College of Medicine. He has a consultation hour in the dean's room, Administration Hall 104, where students may call seeking advice touching their work. A leave of absence for a short time may be granted a student by the dean of his college. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused must make request for excuse for absence within two weeks from the time the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. If he is in good standing and is not a minor he is given honorable dismissal from the University at his own request; if a minor, at the request of his parents or guardian.

FEES AND EXPENSES

Fees. All fees (excepting the diploma fee) and charges to students in Lincoln are payable in advance to the Secretary of the University; to students in Omaha, at the office of the College in the College building. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, the application stating the reasons, and being presented at the time of withdrawal from a course or from the University. The schedule of fees in the College of Medicine is as follows:

Matriculation fee	\$5
Diploma fee	5
Diploma fee, absentia, additional	10
Diploma, "cum laude," fee.....	10

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

THE COLLEGE OF MEDICINE

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FIRST-YEAR AND SECOND-YEAR FEES.

Tuition, first semester (or any single semester).....	\$25
Tuition, second semester	20
Incidental, each semester (in College of Arts and Sciences 6-year combined course)	3

LABORATORY FEES

Anatomy 1	\$15
Anatomy 2	10
Anatomy 3	5
Anatomy 8	3
Anatomy 11, 12	graduated
Bacteriology 1	2
Botany 1, 2	each 2
Chemistry 41	2
Chemistry 1, 2, 34	each 5
Chemistry D, 1 and 2 combined, 3.....	each 10
Clinical Diagnosis (Pathology 4)	4
Histology and Embryology 1 and 11.....	6
Histology 4	5
Histology (Organology), 12	4
Histology 13, each credit hour	2
Histology 1a, 15	2
Materia Medica (Pharmacology 4)	2
Pathology 2	10
Pharmacy (Pharmacology 1)	5
Pharmacodynamics (Pharmacology 2)	10
Physical Diagnosis (Physiology 14)	2
Physics 11, 12	each 4
Physiology 12	9
Physiology 13	6
Zoology 3, 4, 7, 15.....	each 2
Zoology 1, 2.....	3
Zoology 6	5
Zoology A	4

JUNIOR YEAR.

Fees for all required exercises, including all laboratory and clinic fees..	\$80
Breakage deposit	10
Examination fee	10
Experimental Surgery, laboratory fee	5

SENIOR YEAR.

Fees for all required exercises, including laboratory and clinic fees...	\$80
Breakage deposit	10
Examination fee	10

Breakage in the laboratory and damage to the college property are charged to the individual or class responsible. In case the damage can not be located, it is charged the class *pro rata*.

A graduate of any recognized medical college who desires to attend the Omaha clinical work of the University of Nebraska College of Medicine may do so by paying the matriculation fee of \$5 and \$5 for each course taken.

Expenses. In Omaha board and lodging cost from \$3 to \$5 a week. By means of clubs students materially reduce this expense. The Young Men's Christian Association issues to students in the College of Medicine special season tickets at a very small cost, granting the privilege of the association's building—baths, gymnasium, parlors, lectures and concerts. Comfortably equipped rooms may be rented at reasonable prices. The location relative to the College makes the Young Men's Christian Association building a convenient home for the students. In Lincoln board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

GRADUATE WORK IN MEDICINE

To provide a still more thorough training in medicine the College of Medicine offers an additional optional year of graduate study, consisting of (1) research work in any one of its departments; or (2) work as an interne in some approved hospital; or (3) advanced study in some appropriate field at a research laboratory or other institution of higher learning, together with the preparation of a thesis. This thesis must embody the results of independent observation and investigation in connection with any one of the types of work mentioned above and the subject must be approved

at the beginning of the work by the student's advisory committee. This thesis shall be presented to the advisory committee at least one month prior to the date of taking of the degree and shall be by them placed where members of the faculty may freely examine it.

On completion of the required work and the presentation of a satisfactory thesis, the student may receive the degree of Doctor of Medicine *cum laude*, provided he is favorably recommended to the faculty by his advisory committee and the faculty by unanimous vote approves the recommendation.

A student desiring to become a candidate for this fifth year's work should indicate his purpose in writing with the Dean on or before Commencement Day of the year preceding such advanced study. His advisory committee, the chairman of which must be a member of the faculty of this college and either the head of the department in which he is to work or the chief of staff of the hospital in which he is to serve as interne, will be appointed at once and take charge of his work.

Normally, hospital internships are taken in some one of the affiliated hospitals; all other cases must be the subject of specific request and approval by the faculty on recommendation of the Dean. Approval must also be secured from any non-affiliated hospital elected, and the chief of its staff must express in writing his willingness to accept the interne and to carry out the conditions laid down by the committee for his work.

The candidate must also secure permission in order to undertake work at a research laboratory or other institution, and must fulfill all conditions which his committee may impose.

EQUIPMENT

The Work in Lincoln is given in the various laboratories of the University, which are well equipped with the necessary apparatus. A more detailed description of the facilities provided is found in connection with the announcement of courses given by different departments.

The present college building in Omaha, completed in 1899, is situated at the corner of Twelfth and Pacific streets, and is a brick and stone structure, having four stories above the basement. On the first floor are the faculty room, the student's lobby, and the free dispensary. The latter comprises a waiting room for patients, a pharmacy, a dispensary laboratory, and numerous departmental clinic rooms for the systematic examination and treatment of patients. On the second floor are the offices, the amph-

theater with a seating capacity for 250, the library, the reading room, and a commodious coat room. On the third floor are the museum, chemical laboratory thirty by fifty feet in size, private rooms for the professors of surgical anatomy, clinical chemistry, and pathologic anatomy, and a smaller amphitheater with a stationary table to which gas and running water are supplied for practical demonstrations in these branches. The fourth floor is wholly given up to microscopic work. The laboratories, occupying a space of one hundred by thirty-five feet, have light on every side. Stationary tables for the preparation and mounting of specimens occupy the center of the room. These tables are supplied with gas and running water and are made as convenient as possible to conserve the student's time. In front of each window is a table, furnished with gas attachments and Bunsen burners. In this room are lockers so that each student has a safe place for his working outfit. The clinical and pathological laboratories are commodious and provided with abundant light. The arrangement is such that the class may, at a moment's notice, be assembled from the laboratory desks to recitation benches at one end of the room, where demonstrations may be made from gross specimens by the use of series of blackboards or by means of projection apparatus. These laboratories are provided with a lantern, a projection microscope and a complete Zeiss epidiascope, as well as a collection of slides, models and charts. Clinical laboratory instructors are included in the faculty, the clinical laboratories are thoroughly equipped, and much time is devoted to the study of clinical pathology in the laboratories in connection with the lectures and clinics. The museum has been enlarged and affords a large variety of well-selected material for demonstration.

CLINICAL FACILITIES

For practical teaching in all departments of medicine and surgery, this College has unusual clinical facilities. Its students have access to seven hospitals, in five of which the College has exclusive clinical privileges.

The College Dispensary. The College Dispensary on the first floor of the College building is designed for the gratuitous treatment of all worthy charitable cases that may apply. The space assigned includes a large reception room and adjoining consultation rooms for the separate examination and treatment of cases in surgery, medicine, gynecology, pediatrics, eye, ear, nose, throat, skin and genito-urinary diseases. Members of the clinical faculty and their assistants are in daily attendance from twelve to

two o'clock. Students in the senior class assist, serving in rotation the different departments. The material available is ample to demonstrate the usual diseases and accidents met with in practice. Selected cases are demonstrated and discussed with especial care before the entire class. Advanced students are often sent out from the clinic to see urgent cases at their homes and to make reports thereon to the instructor in charge. Students who have not had experience in dispensing drugs are assigned in rotation to the pharmacy in connection with the dispensary, where they are instructed in writing and reading prescriptions and in compounding and dispensing drugs.

The Nebraska Methodist Hospital. In the Nebraska Methodist Hospital, which received about 1,450 patients last year, this college has exclusive clinical privileges. A new, commodious, fire-proof building, planned by one of the best architects in the country and embodying the most modern details of construction and arrangement, has been recently erected. It contains an operating pavilion and amphitheater seating about 100 students and is furnished with the best appliances known. At this hospital weekly clinics are held throughout the session for the advanced class in surgery, orthopedics, internal medicine, and ophthalmology and otology. From the graduating class three internes are selected for a year's service each, with provisional opportunities for extended work.

The Immanuel Hospital. In the Immanuel Hospital this College has exclusive clinical privileges. The hospital is well arranged and thoroughly equipped for the application of scientific methods in the treatment of disease. It consists of two buildings and the new one is very modern. The arrangements have been completed to install an up-to-date X-ray plant. The hospital laboratory is open to students detailed to work out clinical cases. The capacity of the two buildings is one hundred and twenty beds. Two internes are selected from each graduating class to serve one year. Opportunity will be given them for special research work.

The Douglas County Hospital, costing \$200,000 and accommodating 300 patients, includes a maternity pavilion and an insane department. There has lately been added a pavilion for the modern treatment of cases of consumption. This institution is in reality the charity hospital of Omaha and the surrounding country. Since cases illustrative of all diseases, acute and chronic, occurring in this section of the country are found here, the students of this college have exceptional opportunities for direct bedside instruction in all departments. Regular clinics are held weekly in

surgery, medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians are appointed each spring for a term of one year. Always one and frequently both of these have been graduates of this college.

The Clarkson Memorial Hospital, a new modern building, located at Twenty-first and Howard streets, within an easy walk of the College, was occupied in the spring of 1909. It is a thoroughly modern hospital building, and has 70 beds and two operating rooms. The hospital affords opportunities for two internships. Clinics in gynecology and obstetrics are held by appointment.

The Wise Memorial Hospital. This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick and iron construction. It is modern in every respect. It has a separate obstetric and children's ward. There are seventy-five beds, and two well equipped operating rooms. Clinics in medicine and surgery are held weekly in the amphitheatre. Clinics in otology and rhinology by appointment. Two internes are chosen from the graduating class each year for a service of one year. The laboratory is equipped with the apparatus necessary for clinical examinations. The location is within walking distance of the new building.

The Swedish Mission Hospital, located at 24th and Pratt streets, has a capacity of forty-five beds. The operating room has recently been remodeled and is modern in every way. A well equipped laboratory is at the disposal of the staff. An X-ray apparatus has been installed, and is used for diagnostic and therapeutic purposes. Special medical and surgical clinics are held here by appointment. Two internes are appointed each year from the graduating class.

In the **Child-Saving Institute** this College has exclusive clinical privileges. The Institute now occupies a new building especially constructed for its use, at Forty-second and Harney streets, directly across the street from the new clinical campus. The building embodies all the latest improvements; it contains operating and sterilizing rooms and isolating wards, also a well equipped laboratory where seniors may have the opportunity of doing original work and examining the stools and blood and urine. The opportunities here for the study of the dressing, care and feeding of infants, and of the diagnosis, progress and treatment of the different gastro-intestinal and contagious diseases of childhood are unexcelled. Occasional outbreaks of infectious diseases among the constantly changing

inmates afford unusual opportunities for illustration of the subjects taught in the course of pediatrics.

The City Mission—Arrangements have been made by which the clinical material of this institution is at the disposal of the College clinic.

HOSPITAL APPOINTMENTS

The Glenwood Institute for the Feeble Minded affords a salaried physician as a house physician for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed each year. Two internes are chosen by the medical staff of the Omaha General Hospital. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year; three at the Nebraska Methodist Hospital; two at the Immanuel Hospital; two at the Clarkson Memorial Hospital; one at the Wise Memorial Hospital; two at the Swedish Mission Hospital.

Several graduates of the College secure positions each year in other hospitals in Nebraska and adjacent states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions. The proportionate number of these positions open to the college will thus be seen to be far beyond that open in the majority of medical colleges, and under present conditions all capable students desiring hospital training may obtain the inestimable advantage of a year's hospital service before entering upon private practice.

PUBLIC HEALTH

The College of Medicine, as a state institution, recognizes its duty to the public in matters touching the health of the people. Members of the medical faculty in Lincoln give occasional addresses of general interest on medical subjects at the regular University convocations and elsewhere. The College of Medicine has aided in the formation within the Nebraska State Teachers' Association of an auxiliary*section on "Popular Medical Education," the object being to discuss medical subjects of practical importance in our public schools. Different members of the faculty also participate actively in the work of several other societies having for their aim the conservation of health and the diffusion of knowledge in regard to public health and sanitation.

LIBRARIES, PUBLICATIONS AND SOCIETIES

In Omaha the College of Medicine library contains about 1,000 volumes, including a collection of text-books covering the entire range of medical science. This collection does not obviate the necessity of students having their own text-books, but offers greater opportunities for investigation of subjects in which they are specially interested. Periodical literature is also on file. The Omaha Public Library includes a good medical library, the use of which is free to students in the College.

In Lincoln the following libraries, aggregating 279,000 volumes, are accessible to students: The University Library of 106,000 volumes, particularly strong in those scientific lines wherein lies the first two years' work of the student of medicine, and including special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. The Lincoln City Library, of 33,000 volumes, has an alcove devoted exclusively to medical literature. The State Library of 80,000 volumes at the Capitol, includes valuable medical works in certain lines. The Nebraska State Historical Society Library of 60,000 volumes, contains useful series of public documents, such as reports of state boards of health and of state hospitals and other institutions.

The Alumni Association of the College of Medicine maintains an active and efficient organization, of advantage to both the graduates and the University. In order that the College may keep in touch with its Alumni they are requested to notify the Registrar and the secretary of the association when they change their address.

The Clinical Review Week, tried as an experiment in the fall of 1910, and repeated in 1911 and 1912, has proven so successful that it has been determined to make it an annual affair. The dates selected in 1912 were October 14 to 19, inclusive; those for 1913 have not been selected, but will probably include the corresponding week. The forenoons are devoted to clinics, the afternoons to round-table discussions and the evenings to social pleasures.

The Medical Society of the University of Nebraska, at Lincoln, is a student organization to membership in which any student in the University at Lincoln looking forward to medicine is eligible. Meetings are held periodically, some of which are addressed by members of the faculty or others invited to do so; other meetings are purely social.

GENERAL COLLEGE PRIVILEGES

Students in the College of Medicine have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is required of all students in the college years preparatory to the work in medicine, and in the first two years of the six-year combined course.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED ACADEMIC AND MEDICAL COURSE

All students are urged to take this course, if possible, since it affords the best possible training with the greatest economy of time, and furthermore gives the student the advantage of possessing the bachelor's degree.

FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2	2	2
Botany 1, 2	3	3
General Zoology (Zoology 3, 4)	3	3
Rhetoric 1, 2	2	2
Modern Language (German)	5	5
Military Drill	1	1
	<hr/> 16	<hr/> 16
SECOND YEAR		
Physics 11, 12	3	3
Volumetric Analysis (Chemistry 8).....	4	
Medical Zoology (Zoology 15).....	2	
Vertebrate Anatomy (Zoology 6).....		4
Osteology (Zoology 7).....	2	
Modern Language (German or French).....	5	5
Psychology (Philosophy 3).....		3
History of Medicine		1
Military Drill	1	1
	<hr/> 17	<hr/> 17
THIRD YEAR		
General and Practical Anatomy (Anatomy 1, 2).....	5	5
General Physiology (Physiology 12).....		6
Embryology and Histology 1, 11, 12.....	4	3
Physical, Organic and Physiological Chemistry (Chem- istry 3, 25, 34)	7	4
	<hr/> 16	<hr/> 18

	FOURTH YEAR	1st Semester	2d Semester
		Hours	Hours
Regional Anatomy (Anatomy 3).....		3	
Neurology (Anatomy 8, Histology 15).....		2	2
Advanced Physiology (Physiology 13).....		4	
Pharmacodynamics (Pharmacology 2)			5
Bacteriology 1		4	
Pathology 2			6
Toxicology (Chemistry 41)		2	
Pharmacy (Pharmacology 1).....		1	
Materia Medica (Pharmacology 4).....			2
Physical Diagnosis (Physiology 14).....			1
		<hr/> 16	<hr/> 16

FIFTH AND SIXTH YEARS

The work of the last two years is identical with that of the Junior and Senior years of the Four-year course below:

ORDER OF SUBJECTS IN THE FOUR-YEAR MEDICAL COURSE

FRESHMAN YEAR	1st Semester Hours	2d Semester Hours
General and Practical Anatomy (Anatomy 1, 2).....	5	5
Organic and Physiological Chemistry (Chemistry 3, 34) ..	5	4
General Physiology (Physiology 12).....		6
Embryology and Histology 1, 11, 12.....	4	3
Osteology*	1	
	15	18
SOPHOMORE YEAR		
Regional Anatomy (Anatomy 3).....	3	
Neurology (Anatomy 8, Histology 15).....	2	2
Advanced Physiology (Physiology 13).....	4	
Toxicology (Chemistry 41)	2	
Pharmacodynamics (Pharmacology 2)		5
Bacteriology 1	4	
Pathology 2		6
Pharmacy (Pharmacology 1).....	1	
Materia Medica (Pharmacology 4).....		2
Physical Diagnosis (Physiology 14).....		1
	16	16
JUNIOR YEAR		
Special Pathology	1	1
Therapeutics	2	2
Sanitation and State Medicine		1
Surgical Anatomy	1	
Physical Diagnosis	2	2
Medicine	4	4
Surgery	4	4
Obstetrics	2	2
Pediatrics	1	
Ophthalmology and Otology		1
	17	17

*For those who have not had the subject in the required college years.

	SENIOR YEAR	1st Semester	2d Semester
		Hours	Hours
Laryngology and Rhinology		1	1
Gynecology		2	2
Surgery Conference and Practice		3	3
Obstetrics		2	2
Mental and Nervous Diseases		1	1
Dermatology		1	1
Therapeutics		1	1
Jurisprudence			1
Life Insurance Examinations		1	
Ophthalmology and Otology		1	1
Medicine		3	3
Pediatrics		1	1
		<hr/> 17	<hr/> 17

NOTE—Dispensary and sectional clinics in addition throughout the year.

HOURS DEVOTED TO EACH SUBJECT

(Seventeen weeks of actual class instruction in each semester except the last of the senior year, which has fifteen.)

COURSES	First Year		Sec'd Year		Third Year				Fourth Year			Entire Course				Total
	Lect.	Recit.	Lect.	Recit.	Lect.	Laboratory	Clinics	Dispensary	Lect.	Laboratory	Clinics	Lect.	Laboratory	Clinics	Dispensary	
Anatomy:																
Gross Anatomy.....	136	272	51	136	34							221	408			1088
Histology.....	76	204	17	68								93	272			
Embryology.....	26	68										26	68			
Chemistry and Physiology:																
Organic Chemistry.....	85	119										85	119			731
Physiological Chemistry.....	68	119										68	119			
Physiology.....	68	136	51	85								119	221			
Pathology and Hygiene:																
Bacteriology.....			68	136								68	136			629
Pathology.....			85	204	34	68						119	272			
Hygiene.....					34							34				
Pharmacology:				51									51			
Pharmacy.....				51									51			508
Pharmacodynamics.....			85	102								85	102			
Pharmaceuticals.....			34	34								34	34			
Therapeutics.....			51	51	68				32			151	51			
Medicine and Specialties:																
General Medicine.....					160	34	96		102	120		262	34	216		875
Pediatrics.....					17	34			32	64	49	32		98		
Nervous and Mental Diseases.....									32	96		32		96		
Jurisprudence, etc.....									20			20				
Dermatology.....									32	36		32		36		
Surgery and Specialties:					204		170		87			291		290		871
General Surgery.....									32		120	32				
Orthopedic Surgery.....									32	64		32		64		
Genito-Urinary Surgery.....									32	64		32		64		
Eye and Ear.....									17			17				
Nose and Throat.....									49	32		49		32		
Obstetrics and Gynecology:																
Obstetrics.....					102				64			166				294
Gynecology.....									64	32	32	64	32	32		
Dispensary and Drug-Room.....								170							170	170
	459	918	442	867	653	102	300	170	595	32	628	2149	1919	928	170	5166
Total for each year.....	1377	1309			1225				1255			5166				
	1st yr.	2d yr.			3d yr.				4th yr.			Entire Course				

In using these figures for comparison, the following facts should be kept in mind: (1) The length of the year. (2) The laboratory work is all prescribed, instead of the student being expected to put in additional work to complete an assignment, and if, as is frequently the case, a student who works rapidly has a margin in his favor he is assigned additional work or allowed to devote the time to study in the laboratory as the teacher may prefer. (3) The figures do not include certain work which is difficult to estimate exactly, such as autopsy work in pathology, assignment to cases in medicine, assignment to cases in obstetrics, and dispensary assignments in all clinical departments in the senior year. This would increase especially the time allowance for clinical subjects, the total hours in clinic, and the totals for the last two years.

DIDACTIC AND LABORATORY INSTRUCTION ***ANATOMY**

Professor Poynter, Adjunct Professor Walker, Dr. Hilton; in Omaha, Associate Professor Stokes

This department aims to present the subject of human anatomy in a thoroughly scientific manner. The laboratory work is done under constant surveillance. Drawings of regions on the subject as exposed by dissection are required wherever important relations exist. The student is required to take frequent individual quizzes upon the cadaver; to demonstrate all parts dissected to a demonstrator; to attend class quizzes two or three times a week; to pass occasional review quizzes and on the completion of all dissections to pass an individual oral examination on the entire subject. The lectures supplement the laboratory work, dealing with such facts from embryology, comparative vertebrate anatomy, etc., as will add breadth to the student's view of the field.

Courses in general zoology and comparative anatomy of vertebrate must precede the work of this department. In the first year of the course the ground covered is osteology, the descriptive anatomy of the entire body except the head and neck together with the topographical anatomy of the trunk. In the third semester the study of the head and neck is taken up in a very detailed manner. The anatomy of the nervous system is taken up in the third semester and is very closely correlated with the other work of this semester.

The laboratory occupies rooms for lectures and quizzes, for osteology, for dissection, locker-room, preparation room, and store rooms. The dissecting room is divided into small rooms, one for each table, each under a large skylight and each provided with electric lights for dark days. To assist the student in his work, charts, models, anatomical preparations and carefully selected works of reference are close at hand for ready consultation.

1. **General and Practical Anatomy**—Introductory principles; general descriptive anatomy. Laboratory work; osteology; dissection of human arm, leg and trunk exclusive of viscera. Three hours attendance. Eight

*For details in regard to courses in Language and Rhetoric, the reader is referred to the catalog of the College of Arts and Sciences.

hours laboratory with demonstrations. Five hours credit. First semester, freshman year.

Poynter, Walker, and Demonstrators

2. General and Practical Anatomy—1 continued. Laboratory work; dissection of viscera and genito-urinal organs, together with topographical anatomy of the trunk; practical application of detailed relationships. Three hours attendance. Eight hours laboratory. Five hours credit. Second semester, freshman year.

Poynter, Walker, and Demonstrators

3. Advanced General Anatomy—Lectures and demonstrations; topographical anatomy. Laboratory work, dissection of the head and neck. Two hours lecture. Four hours laboratory. Three hours credit. First semester, sophomore year.

Poynter

5. Surgical Anatomy—Lectures, illustrated by charts, models and museum specimens; practical work on the cadaver. Designed to apply anatomy to surgery. Two hours lecture. First semester, junior year.

Stokes

8. Anatomy of the Nervous System—Lectures illustrated by charts and models covering the points that will later have special significance in surgery. Laboratory work; detailed study of the human brain. One hour lecture. One hour quiz. Four hours laboratory. Two hours credit. First semester, sophomore year.

Poynter

11. Advanced Anatomy—For those who have had Anatomy 1, 2 and 3, or a complete dissection of the body, and who desire to review the subject or to cover the anatomy of certain regions. Credit from two to five hours. Fee graduated. Elective. First semester.

Poynter

12. Advanced Anatomy—Continuation of course 11. Second semester.

BACTERIOLOGY AND PATHOLOGY

Professor Waite, Adjunct Professor Putnam, Doctor Pilsbury

BACTERIOLOGY

This course aims to build a firm foundation for the subsequent practical work in bacteriology. The study of form, structure, multiplication, requirements of growth and the chemical productions is followed by applying the facts acquired to fermentation and putrefaction. In the latter half of the course pathogenic organisms are dealt with exclusively. The various ways in which bacteria gain entrance to the body, the changes which they bring about, and their final removal from the body are thoroughly explained. Attenuation and immunity are carefully discussed. Each of

the bacterial diseases is then considered from the point of view of etiology. In the laboratory the preparation of culture media is first taken up. This is followed by a study of their growth on the various media. By these means both non-pathogenic and pathogenic organisms are isolated and identified. A thorough grounding in disinfection and sterilization is required by practical application of the principles discussed in lecture. Animals are inoculated in the presence of the class, which is required to isolate the organisms from the tissues of the animal and grow them in pure culture. Special attention is given to the practical bearing of methods of bacteriological diagnosis.

1. **Bacteriology**—Four hours lecture and quizzes. Eight hours laboratory. Four hours credit. First semester, sophomore year.

PATHOLOGY

Waite, Putnam

The subject of general pathology is thoroughly reviewed. The origin of disease, disturbance of circulation, retrograde changes, inflammation and tumors are carefully studied. In conclusion the diseases of special organs are taken up according to their relative importance. In the laboratory the student is required to identify about one hundred and fifty specimens, and with the aid of the instructor work out departures from the normal. From the facts thus acquired a diagnosis is made. Descriptions of all sections and drawings of all typical specimens are required to familiarize the student with recording changes seen and to train him in accuracy of observation.

2. **Pathology**—Five hours lecture and quizzes. Ten hours laboratory. Six hours credit. Second semester, sophomore year. Waite, Putnam

BOTANY

Head Professor Bessey, Assistant Professor Walker

Five laboratories—general, advanced, and physiological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware and other supplies and apparatus.

1. **General Botany**—Introduction to structure of plants (cells, tissues, tissue systems). General morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester, Bessey, Walker

2. **General Botany**—The general morphology and physiology of representative species, including flowering plants. Continuation of course 1 and with it furnishing a basis for plant materia medica. Second semester.

Bessey, Walker

CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler, Mr. Frankforter, Mr. Wilson, Miss ———

A general survey of chemistry, inorganic and organic, including the nature of chemical processes and the use of apparatus.

Instruction by the lecture-laboratory method.

Advanced students having the necessary experience and knowledge do research work under guidance.

D. **The Non-Metallic Elements**—This course is designed to give a general view of chemistry, including the general principles, and taken by students entering without a high-school course. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales, Wilson, ———

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 entrance points. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Borrowman, Wilson, ———

2. **Qualitative Analysis**—1 continued. Introduction to quantitative analysis included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Borrowman, Wilson, ———

1 and 2 (combined course). **Qualitative Analysis**. Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Dales, Wilson, ———

8. **Volumetric Analysis**—A study of standard volumetric methods. One hour attendance. Ten hours laboratory. Four hours credit. First or second semester.

Frankforter

3. **Elementary Organic Chemistry**—The important classes of organic substances. Preparation in laboratory of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester, freshman year.

Fossler

25. Physical Chemistry—Elementary course; the general principles of physical chemistry with applications to chemistry and to other sciences. Required in six-year course; elective in four-year course. May be taken with course 3. Two hours credit. First semester. Dales

34. Physiological Chemistry—The organic compounds and chemical processes of physiological importance. Prerequisite: Courses 1, 2 and 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester, freshman year. Fossler

HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Becker

1. Vertebrate Embryology—A brief survey of vertebrate development with special reference to morphogenesis and histogenesis of organs. The course is arranged to correlate as closely as possible with those in histology and gross anatomy. The chick and pig are used chiefly for laboratory study, with illustrative material from other groups. The dissection of the fetal membranes and their relation to the uterus form a part of the laboratory study. Two hours lecture. One hour quiz and eight hours laboratory work for eight weeks. Three or four hours credit. First half of first semester, freshman year. Willard, Becker

1a. Microscopical Technique—This may be elected for one hour credit in connection with other laboratory courses in the department. It includes some systematic instruction and practice in the special methods of preparing material for microscopical examination. The more rapid practical methods of handling tissues will be emphasized for those who desire a technique which may be used with little laboratory equipment. Not less than four hours of laboratory work with personal instruction. One hour credit. Either semester. Willard

11. General Vertebrate Histology—The finer structure of the vertebrate tissues with special reference to mammals and man. Tissue differentiation is logically presented by way of histogenesis and the functional significance of the structural changes emphasized. Two hours quiz. Eight hours laboratory for eight weeks. Two hours credit. Second half, first semester, freshman year. Willard, Becker

12. Histology of Organs—The microscopical study of mammalian organs with reference to their tissue constituents and their ultimate relation to blood and lymph supply. The effort is made to bridge the gap be-

tween microscopical and gross anatomy by the handling and dissection of fresh mammalian organs in connection with section study. Human material is used where its preservation can be controlled and normal structure insured. Instruction and practice in histological technique is provided for in supplementary courses which may be taken at same time. Two hours quiz. Four hours laboratory work. Three hours credit. Second semester, freshman year. Willard, Becker

13. Advanced Histology and Embryology—This is a course designed to give opportunity for a more comprehensive study of certain organs that cannot adequately be considered in the required courses. This applies particularly to the nervous and sense organs. Arranged for laboratory and quiz work. Equivalent to two or three hours credit. Elective. Pre requisite: Courses 1 and 2. Willard

15. Neurology—The microscopical anatomy of the human brain, based upon a study of sections prepared to show principally fiber tracts and end nuclei. Two hours quiz. Four hours laboratory. Two hours credit. Second semester, sophomore year. Willard

HISTORY OF MEDICINE

Assistant Professor Orr

1. History of Medicine and Medical Literature—Lecture and study course dealing with men who have contributed to medical knowledge from the earliest times to the present. Development of medicine in its different branches as an abstract department of knowledge. Reading and note-taking. Special study of library methods and medical literature, medical cataloging and bibliography. Two hours lecture. One hour credit. Second semester. Orr

HYGIENE, SANITATION AND STATE MEDICINE

Professor Towne

1. Sanitation and State Medicine—Relation of medical profession to public health. Theoretical consideration. Results of practical experience. Quarantine regulations of Nebraska. Air, water, climate, soil, heating, ventilation. Municipal and private water supply. Milk, sewerage, disposal of waste. Public and private management of transmissible diseases. Epidemics, contagion, and disinfection. Two hours lecture. Second semester, junior year. Towne

CLINICAL PATHOLOGY

Doctor Bliss, Doctor Manning

The course in general and special pathologic anatomy and histology is specially designed to apply to the principles of general pathology, to organic and systematic abnormal alterations, and to bring out the close relations of these alterations to clinical symptoms.

Instruction by the lecture-laboratory method, each exercise being a didactic quiz.

Each student is required to write a résumé on some assigned subject and to present it before the class.

All students registered for Courses 1 and 2 are required to attend and assist at autopsies. Two students are assigned to each autopsy and are required to render a complete report of both gross and microscopic findings.

The work in Clinical Pathology covers examinations of blood, feces, urine, gastric contents, sputum, and other secretions and excretions from the chemical and microscopical standpoints. Especial attention is paid to the study of normal and pathologic blood, in fresh and stained conditions.

1. Pathologic Anatomy—Lectures, demonstrations and quizzes in special pathology, post mortem technique and gross pathology. Two hours. First semester, junior year. Bliss, Manning

2. Pathologic Anatomy—1 continued. Second semester.

3. Pathologic Anatomy—Conferences on current problems of general and special pathology for half the class. One hour. First semester, junior year. Bliss

4. Clinical Diagnosis—First semester, junior year, two hours lecture and demonstrations. Some work outside of regular hours is also required. Bliss

5. Clinical Diagnosis—Members of the senior class examine specimens, obtained from clinical cases, in the laboratory under the supervision of the professor in charge and report to the professor holding the clinic. First semester, senior year. Manning

6. Clinical Diagnosis—5 continued. Second semester.

PHARMACOLOGY

Professor Lyman, Adjunct Professor Stevens, Adjunct Professor Perusse, Adjunct Professor Day, Doctor Rowe

1. **Pharmacy**—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy, including the manufacturing, compounding, and dispensing of official preparations. Three hours quiz and laboratory. One hour credit. First semester, sophomore year.

Perusse, Day

2. **Pharmacodynamics**—An experimental study of the physiological action of the drugs of therapeutic value. Two hours quiz. Six hours laboratory. Five hours credit. Second semester.

Lyman, Day

4. **Materia Medica**—A didactic and laboratory study of the origin, natural history, preparations, and methods of using individual drugs. The elements of prescription-writing and the use of the United States Pharmacopœia and the National Formulary are taught. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.

Stevens, Rowe

PHYSICS

Head Professor Skinner, Professor Moore, Mr. McComb, Mr. Spencer

The department of physics occupies a building erected especially for the department, conveniently arranged, with all needed facilities, and well supplied with apparatus.

These courses are designed for those desiring a knowledge of the principle of physics and of its relation to other sciences and to natural phenomena. It is open to students who have completed the Medical College entrance requirements in physics.

11. **Arts Course in General and Experimental Physics**—Mechanics, sound, and heat. For the nature of this course and conditions for admission, see above. Three hours lecture with illustrative experiments. Four hours laboratory. Three hours credit. First semester.

Skinner, McComb, Spencer

12. **Arts Course in General and Experimental Physics**—Electricity and light. Course 11 continued. Four hours laboratory. Three hours credit. Second semester.

Skinner, Moore, Spencer

PHYSIOLOGY

Professor Guenther, Doctor Welch, and Assistants

A consideration of facts and theories of vital phenomena, presented with special reference to their application in medicine.

12. **Advanced Physiology**—Combined lecture, demonstrations, and laboratory course. Four hours quiz. Eight hours laboratory. Six hours credit. Second semester, freshman year. Guenther

13. **Advanced Physiology**—12 continued. Three hours quiz. Three hours laboratory. Four hours credit. First semester, sophomore year. Guenther

14. **Physical Diagnosis**—General principles of inspection, palpation, percussion and auscultation. Other physical methods used in the examination of abnormal conditions—determination of blood pressures, registration of arterial and jugular pulse, blood counts, the reactions of degeneration to electrical currents, etc. Physical signs in health and in disease with their clinical demonstration, learned by direct personal examination. One hour lecture and two hours recitation and laboratory. One hour credit. Second semester, sophomore year. Welch

PSYCHOLOGY

Head Professor Wolfe

3. **Elementary Psychology**—A brief course in general psychology for students wishing a general knowledge of this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Wolfe

THERAPEUTICS

Adjunct Professor Goetz, Doctor Jefferson

1. **Therapeutics**—Discussion of all drugs which under the test of modern investigation have been found useful in the treatment of disease. Application of the scientific data obtained through pharmacodynamics. Questions of treatment considered as matters of direct argument from physiology and pathology rather than as mere memory work. Mechanical, physical and hygienic treatment discussed. Immunity and serum therapy. Personal quizzing; prescription writing. Two hours lecture or quiz. First semester, junior year. Jefferson

2. **Therapeutics**—1 continued. Second semester, junior year.

3. **Clinical Therapeutics**—Practical course. Necessity of definite plans of treatment based upon logical reasoning shown in the more prominent diseases. Embraces the direct application of all forms of therapeutic aid. Lectures, quizzes and clinics. In clinics special attention paid to analyzing cases for therapeutic indications. One hour a week at college, one hour a week at hospital. First semester, senior year. Goetz

4. **Clinical Therapeutics**—3 continued. Second semester, senior year.

5. **Seminar in Therapeutics**—Arranged at opening of school year. Each student makes an investigation and reports upon some of the modern specialized forms of therapeutics, such as the Nauheim treatment, the Carlsbad treatment, the Finsen treatment. Careful investigation of the topic with discussion by the class and criticism by the instructor. Senior year. By appointment. Goetz

ZOOLOGY

Head Professor Wolcott, Professor Powers, Professor Barker, Mr. Mitchell, and Assistants; Professor Willard

The laboratory has Zeiss and Leitz microscopes, Reinbolt-Giltay, Minot and Thoma microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus. The department library adjacent and freely accessible contains 2,000 works on animal morphology and physiology. A series of specimens from the Naples Zoological Station, one of injected tissues by Thiersch, and embryological models by Ziegler, Dahlgren, and others, is included in the illustrative material.

3. **General Zoology**—For beginners and those wishing a general insight into methods and principles of the science. The lectures cover the general principles of morphology, physiology, development, distribution, classification and evolution of animals; laboratory work, an intensive study of types drawn from the Protozoa and simpler invertebrates, together with subsidiary cytological and embryological material. Three hours attendance. Four hours laboratory. Three hours credit. By proportionate increase in laboratory and in assigned reading, five hours credit. First semester. Powers, Barker, Mitchell

4. **General Zoology**—1 continued. Second semester.

A. **General Zoology**—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the same field as courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester. Wolcott, Mitchell

6. Comparative Vertebrate Anatomy—A course providing a broad comparative basis for any subsequent work in embryology, microscopical or gross anatomy. In a knowledge of their evolution the student has an explanation for the distinctive structure of the organs of the human body. The adaptation of structure to function, the significance of rudimentary organs and the parallel between evolution and individual development are fully demonstrated in laboratory study. A cartilaginous fish, an amphibian and a mammal, together with prepared dissections from other forms, represent the material used. Anatomical technique is demonstrated to a certain extent in the methods of preservation, injection of blood vessels and the mounting of permanent dissections. A general course in zoology is a prerequisite. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Willard

7. Comparative Osteology of the Vertebrates—A study in morphology, with the skeleton as a basis. The lectures are general and comparative; the laboratory work involves a detailed study of the human skeleton. Two hours attendance. Four hours laboratory. Two hours credit. Should be preceded by courses 3 and 4 or A. Wolcott

15. Medical Zoology—Lectures on morphology, taxonomy and economic relations of the groups Protozoa, Platyhelminthes, Nematelminthes and Arthropoda and their role in the production and transmission of disease. The laboratory work comprises gross dissection and microscopical study and serves as an introduction to microscopical technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Prerequisites: Courses 1 and 2. Barker

17. Animal Parasites—Taxonomy, morphology, biology and economic relationships of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem. Two hours attendance. Four to twelve hours laboratory. May be elected as a two- to five-hour course. First semester. Open to students who have had Zoology 3, 4, and 5, or their equivalent. Offered to medical students as an elective. Barker

18. Animal Parasites—Course 17 continued; but may be elected independently. Second semester. Barker

CLINICAL INSTRUCTION

INTERNAL MEDICINE

Professor Bridges, Professor Milroy, Adjunct Professor Bliss, Doctor Manning, Doctor Peterson, Doctor Hamilton. By invitation, Col. J. M. Banister, M. D., U. S. A.

1. **Physical Diagnosis**—General principles. Demonstration of topography of head, chest, and abdomen. Physical signs in health learned by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. First semester, junior year. Bliss

2. **Physical Diagnosis**—1 continued. Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Second semester, junior year. Three hours. Bliss

3. **Internal Medicine**—General diseases, including infections and disease of stomach and intestines, lungs and kidneys. All diseases pertaining to internal medicine; regular recitations held thereon afford theoretical knowledge of the etiology, pathology, symptomatology, diagnosis, and treatment of disease. In clinic in College building the cases are selected from outdoor dispensary, and usually represent seasonable diseases of the ambulatory type. First semester, junior year. (a) One hour lecture. Hamilton. (b) Four hours recitation. Peterson, Manning. (c) One hour clinic. Hamilton. Two hours clinic, Douglas County Hospital or Wise Hospital. Milroy, Bliss, Hamilton.

4. **Internal Medicine**—3 continued. Second semester.

5. **Internal Medicine**—Includes subjects not studied in junior year. Elucidation of cases seen in hospital clinics, and of cases in private practice, illustrative of the subjects under consideration. Two hours weekly in conference. Members of senior class in rotation are assigned cases for examination and study in the dispensary clinic or at one of the affiliated hospitals, and present a written report thereon before the class and professor. A full discussion of the case follows; etiology, pathology, symptoms, diagnosis, prognosis, and treatment are discussed. Two hours weekly at the Douglas County Hospital; two hours weekly at the Methodist Hospital. Careful direction here given to elaboration of clinical histories and to physical examination of chest and abdomen. Sputum, urine, and blood of patients examined by sections of the class in the College laboratory under

direction of professor of pathology and reports made thereon. First semester, senior year. (a) One hour lecture. Bliss. Two hours conference. Bridges and Milroy. (b) One hour clinic in the College. Bliss. (c) Five hours hospital clinics. Milroy, Bridges.

6. Internal Medicine—5 continued. Second semester.

9. Tropical Medicine—Lectures on the distribution, etiology, diagnosis, and treatment of such tropical diseases as are of practical importance to American physicians in view of our increasing commercial intercourse with tropical countries by reason of our possessions in the West Indies, Panama Canal Zone, and in the Islands of the Pacific. The endemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control, and suppression of the same. One hour lecture each week. Second semester, senior year. Banister

11. Life Insurance Examinations—The nature and growth of life insurance; elementary principles of life insurance; duties and responsibilities of examiners; influence of different diseases, heredity, occupation and habits on expectancy of life; proper technique in examining applicants for life insurance. First semester, senior year. Cloyd

SURGERY

Professor Jonas, Professor Davis, Associate Professor Stokes, Doctor Hunt, Doctor Hull, Doctor Morison, Doctor Hollister, Doctor Kennedy

1. Principles of Surgery—Principles of surgery; full description of the classification of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Subjects assigned for recitation covering lectures on principles of surgery, surgical pathology and tumors, the practice of surgery, surgical diseases, fractures and dislocations. At the College Dispensary cases are presented for diagnosis, operation and treatment. At this clinic a considerable number of minor surgical cases receive attention, minor operations often being performed. Clinics at Douglas County and Immanuel hospitals; operations for all manner of surgical diseases. Practical use of anesthetics, both local and general, considered at these clinics. First semester, junior year. (a) Two hours lecture. Davis. (b) Four hours recitation. Hull, Hollister and Kennedy. (c) Two hours dispensary clinic. One hour hospital clinic. Jonas and Davis, Hull, Morison and Hollister.

2. Principles of Surgery—1 continued. Second semester.

3. **Bandaging**—Uses and application of bandaging, plaster of Paris (including its preparation) and other surgical dressings. Practical work under the direction of the instructor. One hour weekly. Second semester, junior year. Hollister

4. **Experimental Surgery**—Intended to familiarize student with principles of surgical technique and asepsis by actual operations performed on animals, and done with the same care as on the human body. Optional for juniors, second semester. Three hours clinic. Stokes

5. **Practice of Surgery**—Covers part of ground gone over in recitations of junior year. References to observations in hospital clinics frequently recalled and elaborated to fix essential points in diagnosis and treatment. Subjects of hospital clinics brought up for conference in the class-room, when cases are more thoroughly discussed than the time allotted in operative work permits. Members of the class in rotation assigned cases of examination, or illustrative cases cited upon which they are required to make reports on diagnosis, pathology, and treatment. Reports critically discussed in conference. Two hours general clinic at the College Dispensary, principally on minor surgery, including examination, diagnosis, treatment and minor operations. Two hours at Nebraska Methodist Hospital in general and major surgery, at which cases illustrative of the lecture course in practical surgery are thoroughly demonstrated and at which there are regular operations on all regions of the body. Two hours at Immanuel, Wise Memorial, or Douglas County hospitals also furnish opportunity for similar instruction. Members of the class required to assist at operations and administer anesthetics under direction as occasions arise. First semester, senior year. (a) One hour lecture. One hour conference. Jonas. (b) Six hours clinics. Jonas and Davis.

6. **Practice of Surgery**—5. continued. Second semester.

8. **Demonstrations**—Each member of the class individually instructed in performing surgical operations on the cadaver. He is required to master the details and steps of the more common operations necessary in practice, and is called on at times to perform ligations, amputations, excisions, celiotomies for various abdominal diseases, paracentesis, pleurotomy, rib resection and trephining. Second semester, senior year. Jonas, Morison

9. **Section Clinics**—Special clinics by appointment in all of the hospitals mentioned above. These clinics afford work in all branches of general and special surgery. First semester, senior year.

Jonas, Davis, Stokes

10. **Section Clinics**—9 continued. Second semester.

12. **Oral Surgery**—Short course of lectures on the surgery of the mouth in its relation to diseases of the teeth and alveolar processes; care of teeth and influence of neglect of mouth in production of general and stomach disorders. Second semester, senior year. Hunt

13. **Laboratory Course in Surgical Pathology**—Gross and microscopic specimens demonstrated from a diagnostic point of view.

Hollister, Kennedy

ORTHOPEDIC SURGERY

1. **Orthopedic Surgery**—Various deformities; diagnosis, pathology and treatment. Joint diseases; their mechanical and other treatment. Practical study of the subjects of the lectures at surgical clinics in Omaha and Douglas County hospitals. Operative procedures and the study of progress in the cases treated. One hour lecture. First semester, senior year.

Jonas, Hull

2. **Orthopedic Surgery**—1 continued. Second semester.

GENITO-URINARY SURGERY

A systematic course, including the use of the cystoscope and endoscope, is given on the diseases affecting the genito-urinary organs. In the dispensary clinic the practical application of these instruments, the use of sounds, and local treatment of the mucous membrane of the urethra and bladder are studied. Section clinics at the Douglas County Hospital offer opportunities for the study of venereal diseases, including syphilis in all stages. Operations upon the perineum, testicle, prostate and bladder are performed with the assistance of members of the sections.

1. **Genito-Urinary Surgery**—One hour lecture. One hour clinic. First semester, senior year. Stokes

2. **Genito-Urinary Surgery**—1 continued. Second semester.

3. **Laboratory Demonstrations**—Practical demonstrations in laboratory on pathology of genito-urinary diseases. Stokes or Assistant

OBSTETRICS

Professor Somers, Adjunct Professor Pollard, Doctor Taylor

In October, 1911, after consultation with the various charitable organizations of Omaha, it was decided wise to establish a free Lying-In Dis-

pensary in connection with the College of Medicine. The hospitals of the city assisted by giving free beds to those entitled to charity. The results have surpassed the most sanguine expectations. The material is sufficient to satisfy all present demands with the certainty of great increase as the years go by.

Each student is shown one or more cases during the last semester of the junior year, special opportunities being offered to students remaining in the city during the summer months. An obstetric clinic by appointment on Saturday afternoons and on other days out of lecture hours is in successful operation in connection with this department, at which students are taught antepartum diagnosis, physiological and pathological pregnancy, and shown cases of interest that may be under observation at the time. All material for six months of the year at the County Hospital is utilized for this purpose. Written reports of all clinical work are required and every student must have reported twelve cases of confinement before coming up for graduation.

1. Anatomy and Physiology of the Female Pelvic Organs—Development of the ovum; hygiene and management of pregnancy, its signs, diagnosis and pathology. Subject of lectures assigned for study and recitation. Three hours recitation. First semester, junior year. Pollard

2. The Theory and Practice of Obstetrics as Applied to Normal and Abnormal Labor—Lectures illustrated by charts, diagrams and models. Three hours lecture. Second semester, junior year. Pollard

3. Obstetrics—Mechanism of labor, difficult labor, pathology of puerperal state, and the new-born child. Exercises on manikin in diagnosing position and presentation, including a review of mechanism of normal and abnormal labor. Two hours lecture. First semester, senior year. Somers

4. Obstetric Surgery—History and description of all obstetric operations, with a demonstration of all necessary instruments and their uses. Two hours lecture weekly. Second semester, senior year. Somers

5. Attendance on Obstetrical Cases—The Lying-in Dispensary and the various hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of the senior class under direction. During such attendance the student is excused from other college exercises. Under direction and in presence of the professor or one of his assistants, he makes examinations, both by abdominal and vaginal palpation, suggests diagnosis, studies the progress of labor and in

case operative procedure is necessary, witnesses and assists at operations. Practical use of anesthetics in labor. Second semester, junior year, and first semester, senior year. Somers, Taylor

7. **Pathology**—Normal and morbid anatomy of placenta and pregnant and puerperal uterus. Practical demonstrations in the laboratory. First semester, junior year.

8. **Pathology**—7 continued. Second semester.

GYNECOLOGY

Professor Findley, Doctor Hollister, Doctor Fairchild, Doctor Lieber, Doctor Van Fleet

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological lesions and operative procedures. The dispensary clinic, held daily in the College building, is regarded as a most important part of the clinical teaching. It is in these clinics that the student is trained in clinical diagnosis and where he may best be instructed in principles of treatment. One college clinic each week is held in the Clarkson Memorial or Douglas County hospitals throughout both semesters where cases are presented for diagnosis and treatment.

Opportunity is afforded for making bimanual examinations under anesthesia in the clinics.

1. **Gynecology**—Subject covered by didactic lectures and oral quiz one day each week. Supplemented by epidiascope illustrations, demonstrations of instruments, casts and pathological specimens. A special feature of the clinic is the opportunity given each student to make examinations under anesthesia. One hour each day devoted to clinics in the dispensary, where small groups of students are permitted to examine patients, to write histories, and to apply local treatments. First semester, senior year. (a) Lectures. Demonstrations. Findley. (b) Hospital clinic. Findley. (c) Dispensary clinics. Hollister, Fairchild, Lieber, Van Fleet.

2. **Gynecology**—1 continued. Second semester.

OPHTHALMOLOGY AND OTOTOLOGY

Professor Gifford, Doctor Lemere, Doctor Patton, Doctor Potts, Doctor Callfas

1. **Ophthalmology and Otology**—External and internal diseases of the eye and ear and their differential diagnosis. The clinics furnish abundant

cases illustrative of the lectures on eye and ear. First semester, senior year. (a) Lecture. One hour weekly. (b) Hospital clinics. One hour weekly. Gifford

2. **Ophthalmology and Otology**—1 continued. Second semester.

3. **Otology**—Anatomy and physiology of the ear. Use of otoscope; practical study of normal drum membranes; application and theory of acoustic tests. Ten lectures. First semester, senior year. Lemere

4. **Ophthalmology**—Anatomy and physiology of the eye. Use of the ophthalmoscope; practical study of normal fungus; theory of refraction and retinoscopy. Ten lectures. First semester, senior year. Patton

5. **Refraction and Retinoscopy**—Practical work at trial cases in dark room. To meet state board requirements. Second semester, senior year. Patton

6. **Dispensary Clinic**—In college dark room. Two hours weekly. Senior year. Potts, Callfas

LARYNGOLOGY AND RHINOLOGY

Professor Owen, Doctor Wherry, Doctor Rubendall

1. **Laryngology and Rhinology**—Diseases of the nose, throat and larynx; their dependence upon and relation to various constitutional infections and dyscrasie. One hour lecture. First semester, senior year.

Owen

2. **Laryngology and Rhinology**—1 continued. Second semester, senior year.

3. **Principles and Use of the Laryngoscope and Rhinoscope**—Anatomy and physiology of the upper respiratory tract. A study of normal appearances of nose, throat and larynx. Dark room with artificial light provided in the College Dispensary. One hour weekly. First semester, senior year. Wherry

4. **Clinic**—The dispensary clinic furnishes material for study of diseases of the nose, throat and larynx. Having familiarized themselves with the normal appearance and the use of the instruments during the first semester students are prepared for practical instruction in pathology, diagnosis, and treatment of diseased organs. Section clinics and operations in the Wise Memorial and Immanuel hospitals. One hour weekly. Second semester, senior year. Owen, Rubendall

DERMATOLOGY AND GENITO-URINARY DISEASES

Professor Schalek

The course includes conferences throughout the year in which cases are demonstrated and discussed. Weekly recitations serve to prepare a thorough foundation for the subject. At the College Dispensary students become familiar with the more common cutaneous diseases. The latest advances in syphilology are presented. The students are made acquainted with the radio-therapy, the carbonic acid snow treatment, and other therapeutic measures. During the second semester a regular weekly clinic is given at the County Hospital which affords abundant dermatological material. From time to time the students are taken to other hospitals to see patients at the bedside. A fine collection of plates and photographs illustrating various diseases of the skin are available for demonstrations.

1. **Dermatology**—Demonstrations at the Methodist, Immanuel, and Clarkson hospitals. First and second semesters, senior year. Schalek

2. **Dermatology and Genito-Urinary Diseases**—Clinic at the County Hospital one hour weekly. Demonstration of cases and treatment, with lectures. Second semester, senior year. Schalek

3. **Dermatology**—Quizzes with demonstrations of plates and patients. One hour weekly. First and second semesters, senior year. Schalek

PEDIATRICS

Professor McClanahan, Doctor Christie

1. **Pediatrics**—Gastro-intestinal diseases, contagious diseases, diseases of nutrition, and important part played by errors of diet in their production. Milk modification in all its methods, including the working out of percentages. The history and technique of intubation. Clinics at College Dispensary where many cases of ordinary affections of infancy and childhood appear furnish practical applications. One hour lecture. One hour clinic. First semester, senior year. McClanahan, Christie

2. **Pediatrics**—1 continued. Second semester.

3. **Care of Children**—Instruction in the care, hygiene and feeding of infants, cranial measurements, and physical development. One hour lecture and quiz. First semester, junior year. Christie

5. **Section Clinics in Pediatrics**—Clinics at the Child-Saving Institute and Methodist Hospital where it is frequently possible to demonstrate

practically the contagions, measles, scarlet fever, and whooping cough, as they occur in epidemic form. Second semester, senior year.

McClanahan, Christie

6. Section Clinics in Pediatrics—5 continued. Second semester.

NERVOUS AND MENTAL DISEASES

Professor Aikin, Doctor Mogridge, Doctor Young.

1. Lectures on Diseases of the Nervous System—Lectures on the causes of nervous diseases, and the general symptoms. Diagnosis and methods of examination. Diseases of the peripheral nerves. Motor neuroses of spinal nerves. Sensory neuroses of cerebro-spinal nerves. Diseases of the spinal cord. Degenerative diseases. Muscular atrophies. Diseases of the brain. Function neuroses. Insomnia and neurological therapeutics. One hour lecture. First semester, senior year. Aikin, Young

2. Lectures on Diseases of the Mind—Definitions, classification, general etiology, general pathology. General psychology. General symptoms and symptom groups. Examination and diagnosis. Functional psychoses, organic psychoses.

All lectures will be illustrated by clinical cases at the Methodist, Immanuel, and Douglas County hospitals. At the Douglas County Hospital students are assigned cases for examination, diagnosis and treatment and are required to report their cases before the entire class. One hour lecture. Second semester, senior year. Aikin, Young

3. Lectures on Arrested Development—This course considers the cause, manifestations and diagnosis of arrested development. Six lectures one hour each, and one day spent at the Glenwood, Iowa, Institute for the Feeble Minded. Second semester, senior year. Mogridge

MEDICAL JURISPRUDENCE

Mr. Page

1. Medical Jurisprudence—Physicians' contracts, general medico-legal relations. Expert testimony. Malpractice. Life insurance examinations. Injuries and deaths. Poison, identity, and survivorship. Sexual relations. Quarantine sanitation. Medical legislation. Twelve lectures. Second semester, senior year. Page

FRESHMAN YEAR

First Semester

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00	Poynter General Anatomy	Fossler Organic Chemistry Lecture (at 10:00) and Laboratory	Poynter General Anatomy		Poynter General Anatomy
9:00	Willard Embryology 1 (First half semester) Histology II (Second half semester)		Willard Embryology 1 (First half semester) Histology II (Second half semester)		Willard Embryology 1 (First half semester) Histology II (Second half semester)
10:00	Fossler Organic Chemistry		Fossler Organic Chemistry	Fossler Organic Chemistry	Fossler Organic Chemistry
11:00 (T. Th. 1:30)					
1:00 to 5:00	Organic Chemistry Laboratory	Embryology and Histology Laboratory	Embryology and Histology Laboratory	Anatomy Laboratory	Anatomy Laboratory

Second Semester

8:00	Poynter General Anatomy	Poynter General Anatomy	Poynter General Anatomy
9:00	Willard Histology and Organology Quiz	Guenther Physiological Chemistry Lecture	Willard Histology and Organology Quiz
10:00	Guenther Physiology Lecture	Guenther Physiology Lecture or Quiz	Guenther Physiology Lecture
11:00 (T. Th. 11:30)	Cutter Physiological Chemistry Lecture	Cutter Physiological Chemistry Lecture	Cutter Physiological Chemistry Lecture
1:00 to 5:00	Physiological Chemistry Laboratory	Histology and Organology Laboratory	Anatomy Laboratory

SOPHOMORE YEAR First Semester

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:00	Cutter Toxicology		Cutter Toxicology	Guenther Physiology Laboratory	
9:00	Poynter Regional Anatomy	Pharmacy Laboratory	Poynter Regional Anatomy		Waite Bacteriology
10:00	Waite Bacteriology		Waite Bacteriology		
11:00 (T. Th. 11:30)	Poynter Anatomy Nervous System		Guenther Physiology		Guenther Physiology
1:00 to 5:00	Bacteriology Laboratory Anatomy Laboratory	ory—First half semester —Second half semester			Toxicology Quiz and Laboratory

Second Semester

8:00	Stevens Materia Medica Lecture and Laboratory	Pharmacodynamics Laboratory	Willard Neurology Laboratory	Stevens Materia Medica Lecture and Laboratory	Physical Diagnosis Laboratory
9:00					
10:00	Waite Pathology Lecture Lyman Pharmacodynamics Quiz	Waite Pathology Quiz Lyman Pharmacodynamics Quiz	Waite Pathology Lecture Lyman Pharmacodynamics Quiz	Waite Pathology Quiz Lyman Pharmacodynamics Quiz	Waite Pathology Lecture Lyman Pharmacodynamics Quiz
11:00 (T. Th. 11:30)					
1:00 to 5:00	Pathology Laboratory	Pharmacodynamics Laboratory	Pathology Laboratory	Willard Neurology	Pathology Laboratory 3:00-5:00

JUNIOR YEAR Clinics in Italics

HOOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Goetz <i>Medicine Clinic</i> <i>Wise Hospital</i>	Stokes (a) Surgical Anatomy 9-10 Hollister (b) <i>Minor Surgery</i> <i>County Hospital</i> 8-10	Bliss Pathology Conference Manning Medicine Recitation		Bliss, Manning Pathology	<i>Immanuel</i> <i>Hospital</i> Davis <i>Surgery Clinic</i> 9-12
9			Jefferson Therapeutics Recitation	Jefferson Therapeutics		
10	Christie (a) Pediatrics	Bliss Physical Diagnosis (a) <i>Medicine Clinic</i> (b) <i>County Hospital</i>	Jefferson Therapeutics Recitation Pollard Obstetrics	Manning Medicine Recitation Hollister Surgery Recitation	Hollister Surgery Recitation Pollard Obstetrics	
11	Pollard Obstetrics					
1	Stokes <i>Dispensary</i> <i>Surgery</i>	McClanahan Dispensary Pediatrics	<i>Dispensary and</i> <i>Drug-Room Work</i>	<i>Dispensary and</i> <i>Drug-Room Work</i>	Hamilton <i>Dispensary</i> <i>Medicine</i>	
2	Stokes (a) Surgical Anatomy Towne (b) Sanitation— State Medicine	Davis Principles of Surgery	Hamilton Medicine Recitation	Davis Principles of Surgery	Peterson Medicine Recitation	
3	Hull Surgery Recitation	Towne (b) Sanitation— State Medicine	Hull Surgery Recitation			
4						

(a) First Semester. (b) Second Semester.

SENIOR YEAR Clinics in Italics

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8		Patton (a) Lemere Ophthalmology and Otolaryngology	Jonas Surgical Clinic Methodist Hospital	Stokes Surgical Diagnosis Wise Hospital		Milroy County Hospital Conference and Medicine Clinic
9	Owen Laryngology and Rhino-logy	Wherry (a) Laryngology and Rhino-logy Morison (b) Surgery—8-10		Goetz Therapeutic Clinic Wise Hospital	Schalek Dermatology County Hospital After Jan. 1st	Aikin (b) Nervous Diseases Clinic 8:50-12
10	Findley Gynecology	Kennedy Surgery	Bridges Conference and Medical Clinic Methodist Hospital	Findley Gynecology Clarkson or County Hospital	Stokes G.-U. and Rectal Surg. College (a) County Hospital After Jan. 1st	
11	Jonas Surgical Conference	Hollister (a) Fractures and Dislocations Page (b) Med. Jurisprudence				
1	Stokes Dispensary Surgery	McClanahan Moore Dispensary Pediatrics	Aikin Nervous and Mental Diseases Methodist Hospital 12-1	Dispensary Clinic	Hamilton Dispensary Medicine	
2	Somers Obstetrics	Milroy (a) Bridges (b) Medicine	Gifford Ophthalmology and Otolaryngology Methodist Hospital 1-2:30	Aikin, Young Mogridge Nervous and Mental Diseases	Somers Obstetrics	
3	Goetz Therapeutics	Hull Orthopedic Surgery		Banister (a) Tropical Medicine Cloyd (b) (c) Life Insurance	Hunt (b) (c) Dental Surgery	
4	Klick Dermatology Recitation		Christie (b) Pediatrics Child Saving Inst.	McClanahan Pediatrics	Owen Laryngology Sections	Somers Clinics by appointment

(a) First Semester. (b) Second Semester. (c) Eight hours. Laboratory open Monday, Tuesday, Thursday and Friday, 8 to 10 a. m.

The School of Pharmacy

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

ROBERT HENRY WOLCOTT, A. M., M. D., Dean of the College of Medicine.

RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Pharmacy and Professor of Pharmacology. Nebraska Hall 7.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Professor of Botany and Head Dean of the University. Nebraska Hall 104.

WILLIAM GRANGER HASTINGS, A. B., Lecturer in Pharmaceutical Jurisprudence and Dean of the College of Law. University Hall 310.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology. Nebraska Hall 302.

BENTON DALES, Ph. D., Professor of Chemistry. Chemical Laboratory.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology. Nebraska Hall 5.

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

MARY LOUISE FOSSLER, A. M., Adjunct Professor of Chemistry. Chemical Laboratory.

GEORGE BORROWMAN, A. M., Assistant Professor of Chemistry. Chemical Laboratory.

LEVA BELLE WALKER, A. M., Assistant Professor in Plant Pathology. Nebraska Hall 105.

FRANCIS JOSEPH PERUSSE, Ph. C., Adjunct Professor in Pharmacy.

JOHN JACOB PUTNAM, A. M., Adjunct Professor in Bacteriology and Pathology.

ELSIE DAY, A. B., Ph. G., Adjunct Professor of Pharmacognosy. Nebraska Hall 7.

NIELS PETER HANSEN, Lecturer in Commercial Pharmacy.

CLARENCE JACKSON FRANKFORTER, A. M., Instructor in Chemistry. Chemical Laboratory.

HARRY LANDIS THOMPSON, B. Sc., Assistant in Pharmacy.

ORGANIZATION

The interest in professional circles concerning the manufacture, dispensing and sale of drugs, poisons, and synthetics, together with the passage of the Food and Drugs Act, has placed upon pharmacy and pharmaceutical chemistry, and allied subjects, an importance never before enjoyed. The demand for skilled pharmacists was never so great as at the present time. The training as well as the general and technical knowledge demanded of applicants for positions by pharmacists, manufacturers, and the government is rapidly increasing. Thus while positions and opportunities in pharmaceutical work are on the increase, thorough, scientific training in the fundamental subjects has become imperative.

In view of these facts, the University, in the spring of 1908, organized the School of Pharmacy. The purpose of the school is to give the best possible general and technical training in order that students may become responsible dispensers, pharmaceutical manufacturers, food and drug inspectors, and analysts. Further, the University desires to cooperate with the professional men of the state in their efforts to improve and maintain professional standards in the interest of public health.

GROUPS AND DEGREES

Three groups of studies are offered, as follows:

1. **A Two-year Group**, leading to the degree of Graduate in Pharmacy (Ph. G.), which prepares directly for drug store and dispensing practice and provides the groundwork in analytical chemistry necessary for the drug business and the various phases of pharmaceutical manufacturing.

2. **A Three-year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.), giving the student a broader foundation and preparing him for a wider field of action. Its graduates are prepared to do analytical work for physicians or the public, to enter either the analytical or biological laboratories of the large manufacturing concerns, and to fill the government positions made necessary by the passage of the Food and Drugs Act.

3. **A Four-year Group**, academic and professional, leading to the Bachelor of Science degree. This course includes all the technical work of the two year-course with the privilege of election from the three-year course. Students completing this course are prepared to do graduate work, and if they so desire, may seek the degrees of the Graduate College.

REQUIREMENTS FOR ADMISSION

Applicants for admission present themselves to the Registrar, who furnishes them with application blanks and directions for proceeding with their examinations, if any, with registration and fee payments. Students may enter at the beginning of either semester, but for many reasons the first semester is preferable.

Entrance from Accredited Schools. A *graduate* of an accredited school, academy or high school, on presenting a certificate, is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University must, in making application, forward his credentials to the Registrar and be prepared to take such examinations as are prescribed. A student desiring to ascertain whether or not he can be admitted to the first year should apply to the Registrar for blank credential slips. When these are properly filled out and returned, he will be informed at once whether his credentials are or are not acceptable.

Admission to All Groups. The requirements for admission to the School of Pharmacy are the same for all groups and are as follows: The candidate must present entrance "credits" equal to 30 "points," that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 28 "points," that is, 140 hours.

A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

The requirements in detail are given below.

Entrance Subjects (30 points). The 30 points required for admission must be presented for the following subjects in the amount indicated: the time element is essential:

Required Subjects—	Points
English	4
History (European)*	2
Language (Foreign)†	6
Mathematics ‡	4
Science (Laboratory)§	2

Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school

12

Total..... 30

- * History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- † Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined academic-Medical course unless excused by the committee on accredited schools.
- ‡ Mathematics: For entrance to the College of Agriculture four points are required. A third year (2 points) in Mathematics may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- § Science: It is recommended that Physics be offered in meeting the science requirement.

Admission of Special Students. Students, not candidates for degrees, may register in the School of Pharmacy without conforming to the entrance requirements. The admission of special students is permitted after consultation with and upon the recommendation of the Director. Such students must pay the matriculation fee, the laboratory fees of the courses for which they register, and a *pro rata* tuition fee; provided, however, that the tuition charge shall in no case be less than five (\$5) dollars a semester.

Registration. Students are required to register promptly at the beginning of each semester. To promote prompt registration a fee of \$3 is charged any student who, unless excused by the Chancellor, fails to register within the days set aside for this purpose. A like fee of \$3 is charged for re-registration if made necessary by the student's fault. Any change

whatever in a registration once made is regarded as a re-registration. No regular student is registered for less than twelve (12) hours or more than eighteen (18) hours a semester. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without registration. No student is allowed to change from one college to another without permission of the Registrar signed by the dean of each college concerned. A student so changing college must also pay a new matriculation fee of \$5. No student may change his group or drop any study for which he has been regularly registered without written permission from the Director of the School. Any change in a student's residence must be immediately reported to the Registrar.

Absence or Withdrawal. A leave of absence for a short time may be granted a student by the Director of the School. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

Advanced Standing may be granted as follows to applicants presenting proper credentials: (1) Applicants for credit in any particular subject are referred to the head of the department in question for examination. In case subject credit is granted the student is free to use the time thus gained in such extra work as he may elect. (2) Students of pharmaceutical colleges or schools of equal standing are, upon presenting certificate of honorable dismissal, admitted to the class to which credentials issued by such colleges or schools entitle them. Applicants for advanced standing must offer admission credits equal to those required by this school.

REQUIREMENTS FOR GRADUATION

The requirements for the various degrees given by this school are as follows:

1. The moral character of the candidate must be unquestioned.
2. He must have complied with all the requirements of admission and have paid all fees.
3. He must have completed all required courses and have passed satisfactory examination on all required subjects in the curriculum.

4. His last year's work must be taken in this institution.

Experience in the business of pharmacy is not made a requirement for a degree.

EQUIPMENT

The laboratories of the University are well equipped with all the essential apparatus for giving the most thorough instruction. A more or less detailed description of the equipment is given under the description of courses by the various departments.

Libraries. The following libraries, aggregating 279,000 volumes, are accessible to students in Lincoln: The University Library of 106,000 volumes is strong in those scientific lines wherein lies the work of the student of pharmacy. It includes special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. The Lincoln City Library, of 33,000 volumes, also has an alcove devoted exclusively to medical and pharmaceutical literature. The State Library of 80,000 volumes at the Capitol includes valuable pharmaceutical works in certain lines. The Nebraska State Historical Society Library of 60,000 volumes contains useful series of public documents, such as reports of state boards of health and of state hospitals, pharmaceutical associations, and other institutions.

THE PHARMACEUTICAL SOCIETY

The Pharmaceutical Society is an undergraduate organization, the object of which is to bring the students into contact with the leading professional men of the state and elsewhere, and to promote the athletic and social life of the students. Membership in it is open to all students in the School of Pharmacy.

GENERAL UNIVERSITY PRIVILEGES

Students in the School of Pharmacy have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is also offered.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

FEES AND EXPENSES

Fees. All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The matriculation fee, being a statutory one, cannot be refunded except where collected through error. The schedule of fees in the School of Pharmacy is as follows:

Matriculation fee	\$5.00
Diploma fee	5.00
Registration (late registration)	3.00
Library	1.00

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

TUITION FEES

Tuition, first semester	\$20.00
Tuition, second semester	15.00
For special examination, one subject	1.00

No tuition will be charged at present for the third year of the three-year course, the student paying only the laboratory and incidental fees for that year. Students taking the four-year course will pay tuition for only the third and fourth years, when they take the technical work.

LABORATORY FEES

Bacteriology	
Course 1	\$8.00
Courses 2A, 3, 4	4.00
Botany	
Courses 1, 2	2.00
Chemistry	
Courses D, 1 and 2 combined, 3	10.00
Course 14	8.00
Courses A, B, 1, 2, 21, 22, 34	5.00
Courses 7, 8, 39, 40 (per credit hour)	1.00
Courses 15, 16, 41	2.00

LABORATORY FEES—(CONCLUDED)	
Pharmacy	
Courses 21, 22, 23, 24.....	\$7.00
Courses 40, 41, 42.....	3.00
Course 28	6.00
Course 29	8.00
Courses 31, 32, 33, 34.....	5.00
Physiology	
Courses 1, 2	5.00
Zoology 1b	3.00

Expenses. In Lincoln, board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep a list of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

GROUPS OF STUDIES

Two-year Group, leading to the degree of Graduate in Pharmacy (Ph. G.).

	FIRST YEAR	
	1st Semester Hours	2d Semester Hours
Zoology 1b	3	
Chemistry D	4	
Chemistry 1, 2 (combined course).....		4
Pharmacy (Pharmacognosy) 41.....		3
Pharmacy 21, 22	5	5
Physiology 1, 2	2	2
	<hr/> 14	<hr/> 14
SECOND YEAR		
Bacteriology 2A		2
Chemistry 3, 7	5	3
Pharmacy 23, 24	3	3
Pharmacy (Pharmacognosy) 41, 42.....	3	2
Pharmacy (Pharmacology and Therapeutics) 29.....	4	

	1st Semester Hours	2d Semester Hours
Pharmacy (Prescriptions and Dispensing) 28.....		4
Pharmacy (Commercial) 30		1
Pharmaceutical Jurisprudence 1		
	15	15

Three-year Group, leading to the degree of Pharmaceutical Chemist (Ph. C.). The studies for the first two years are the same as in the preceding course. The work of the third year is elective. The student may select work to the extent of 18 hours each semester from the advanced courses enumerated under the courses of instruction. This selection, however, must be made after consultation with the Director and the members of the faculty concerned.

Four-year Group,* leading to the degree of Bachelor of Science (B. Sc.). Details in regard to the non-technical courses which appear in this schedule, such as rhetoric, should be secured from the announcement of the undergraduate colleges.

	FIRST YEAR	1st Semester Hours	2d Semester Hours
Chemistry 1, 2		2	2
Botany 1, 2		3	3
Modern Language (German)		5	5
Rhetoric 1, 2		2	2
Zoology 1, 2		3	3
† Military Drill (men)		1	1
		16	16
	SECOND YEAR		
Chemistry 3		5	
Chemistry 7, 8		5	5
Modern Language		5	5
Physiology 1, 2		2	2
Military Drill (men)		1	1
		18	13

* Registration in the College of Arts and Sciences is necessary to enter this group.

† Four semesters of physical training, each giving one hour credit, are required of women. Four semesters of Military Drill, each giving one hour credit, are required of men.

	THIRD YEAR	1st Semester	2d Semester
		Hours	Hours
Bacteriology 1		4	
Pharmacy 21, 22		5	5
Chemistry (Advanced Analytical) 40.....			5
Chemistry (Physiological) 34.....			4
Pharmacy (Pharmacognosy) 41, 42.....		3	2
Pharmacy (Pharmacology and Therapeutics) 29.....		4	
Pharmacy (Commercial) 30.....			1
Pharmaceutical Jurisprudence 1.....			
		<hr/> 16	<hr/> 17
	FOURTH YEAR		
Pharmacy 23, 24		3	3
Pharmacy (Manufacturing) 31, 32		3	3
Chemistry (Toxicology) 41		2	
Chemistry (Food) 14			5
Pharmacy (Prescription and Dispensing) 28.....			4
Pharmacy (Assaying, Pharmaceutical or Pharmacological)- 33		6	
		<hr/> 14	<hr/> 15

COURSES OF INSTRUCTION

BACTERIOLOGY AND PATHOLOGY

Professor Waite, Adjunct Professor Putnam

1. **General Bacteriology**—The form, structure, manner of multiplication, reproduction, requirements of growth and chemical products of bacteria. The relation of bacteria to fermentation and putrefaction and the means by which complex organic compounds are reduced to simple inorganic forms are fully explained. Disinfection, sterilization, and the theories of immunity. Several non-pathogenic and pathogenic forms are studied. Four hours attendance. Eight hours laboratory. Four hours credit. First semester.

Waite

2a. **Elementary Bacteriology**—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Waite, Putnam

3. **Dairy Bacteriology**—The source of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming, and butyric acid-producing bacteria are discussed and some of the typical organisms isolated. Abnormal fermentations giving rise to slimy, bitter red, blue, yellow and green milk are elucidated. The relation of milk to the spread of tuberculosis, typhoid fever and other diseases. Sterilization and pasteurization. Bacteria in butter-making. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Waite

4. **Agricultural Bacteriology**—The nitrogen problem. The role of bacteria in ammoniacal fermentation, nitrification, and denitrification. The use of bacteria as a means of reclaiming nitrogen lost from the soil. The practical employment of nitrifying bacteria and the employment of pure cultures in growing leguminous plants. Two hours attendance. Four hours laboratory. Two hours credit. Second semester.

Waite

BOTANY

Head Professor Bessey, Assistant Professor Walker

1. **General Botany**—Introduction to the structure of plants, cells, tissues, tissue systems, including blue-green and green algae and general

morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

2. **General Botany**—The general morphology and physiology of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, Walker

CHEMISTRY

Professor Dales, Assistant Professor Borrowman, Adjunct Professor Fossler, Mr. Frankforter, Mr. Currans, Miss ———

REQUIRED

* **D. The Non-Metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales, Currans, ———

* 1 and 2 combined. **Qualitative Analysis**—A study of qualitative reactions and separations, including the identification of common drugs and chemicals and the testing for impurities. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Dales, Currans, ———

3. **Organic Chemistry**—The important classes of organic substances. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Fossler

7. **Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including the assay of drugs. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Frankforter

* Students desiring to study chemistry who enter the University with two points credit should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register for D.

OPTIONAL

A. General Chemistry—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Dales, Currens, ———

B. General Chemistry—Continuation of A. Especial attention is given to the metallic elements, the more common organic compounds, and the applications of chemistry to every-day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester.

Dales, Currens, ———

8. Quantitative Analysis—7 continued. Volumetric analysis, electrolytic analysis, the sanitary analysis of water and the analysis of gases. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Frankforter

21. Assaying—Qualitative examination of ores. Blow-pipe and chemical tests for the common ores and minerals. Principles of fire assays for gold, silver, and lead in ores and metallurgical products. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First semester.

Borrowman

22. Assaying—21 continued. Volumetric and gravimetric methods for the determination of silver, copper, zinc, lead, tin, and iron. Two hours lecture. Four hours laboratory. Two hours credit. Second semester.

Borrowman

39. Advanced Analytical Chemistry—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester.

Dales

40. Advanced Analytical Chemistry—39 continued. Second semester.

41. Toxicology—Poison; chemical nature, antidotes and methods for detection. Prerequisite: Courses 1, 2, 3 and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester.

15. Organic Chemistry—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish

to specialize. Prerequisite: Courses 1, 2 and 3. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Fossler

16. Special Chapters in Organic Chemistry—15 continued. Second semester.

34. Physiological Chemistry—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Four hours lecture. Eight hours laboratory. Four hours credit. Second semester.

14. Food and Sanitary Chemistry—Chemical processes of nutrition; valuation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2 and 3. Five hours lecture. Twelve hours laboratory. Five hours credit. Second semester. Fossler

PHARMACEUTICAL JURISPRUDENCE

Professor Hastings

1. Pharmaceutical Jurisprudence—A series of six lectures concerning the legal status of the pharmacist. Second semester.

PHARMACY

Professor Lyman, Adjunct Professor Perusse, Adjunct Professor Day,
Mr. Hansen, Mr. Thompson

21. Pharmacy—An introductory course beginning with the history of pharmacy and followed by a study of weights, measures, specific gravity, vaporization, desiccation, distillation, sublimation, comminution, separation of fluids from solids, filtration, clarification and decoloration, precipitation, crystallization, separation of immiscible liquids, granulation, and exsiccation, dialysis, extraction, expression, percolation, etc., and all elementary processes used in the preparation of medicines. Five hours attendance. Four hours laboratory. Five hours credit. First semester.

Perusse, Thompson

22. Galenical Preparations—A study of the pharmacopoeial preparations of waters, syrups, emulsions, glycerites, spirits, elixirs, ethereal solutions, liniments, oleates, infusions, decoctions, tinctures, fluid extracts, solid

extracts, etc. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester. Perusse, Thompson

23. Official Inorganic Pharmacy—A study of the inorganic official preparations, the inorganic acids, halogen compounds, alkalies, potassium, sodium, and lithium salts, ammonium, calcium, zinc, iron, lead, copper, silver, mercury, etc. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Perusse, Thompson

24. Official Organic Pharmacy—A study of the official organic preparations, including oils, resins, fats, soaps, glucosides, alkaloids, and products of animal tissues. Three hours attendance. Four hours laboratory. Three hours credit. Second semester. Thompson

28. Prescriptions and Dispensing—A detailed study of the prescription and the art of dispensing and compounding. Four hours attendance. Three hours laboratory. Four hours credit. Second semester. Perusse

29. Pharmacology and Therapeutics—A study of the dosage and physiological action of official and non-official drugs and poisons. An experimental study of a typical member of each group of drugs will be made. Special attention is given to the anesthetics, narcotics, glucosides, alkaloids, and the physiological assay of drugs. Four hours attendance. Four hours laboratory. Four hours credit. First semester. Lyman, Day

30. Commercial Pharmacy—A series of lectures and demonstrations on the commercial aspect of pharmacy. One hour attendance. One hour credit. Second semester. Hansen

31. Manufacturing Pharmacy—Advanced work in pharmaceutical manufacturing. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Day

32. Manufacturing Pharmacy—31 continued. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Day

33. Assaying—Pharmaceutical or pharmacological assaying. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. First semester. Lyman, Perusse

34. Assaying—33 continued. Two to five hours attendance. Six to ten hours laboratory. Two to five hours credit. Second semester. Lyman, Perusse

40. Pharmacognosy—An introductory study of the botany of the drug-

producing plants. Three hours attendance. Four hours laboratory. Three hours credit. Second semester. Day

41. **Pharmacognosy**—A study of the history, classification, constitution and the means of identification of the drug-producing plants. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Day

42. **Pharmacognosy**—41 continued. Two hours attendance. Two hours laboratory. Two hours credit. Second semester. Day

PHYSIOLOGY

Professor Guenther and Assistants

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, digestion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses and reproduction. A combined lecture, demonstration and laboratory course. Two hours lecture. Three hours laboratory. Two hours credit. First semester.

Guenther and Assistants

2. **General Animal Physiology**—1 continued. Second semester.

ZOOLOGY

Head Professor Wolcott, Professor Barker, and Assistant

1b. **General Zoology**—The lectures deal with the general principles of animal morphology, physiology, and embryology. The laboratory work, based upon a study of several invertebrates, and at least one vertebrate type, includes instruction in microscopical technique and in methods of gross dissection, and is designed to give a clear idea of the part played in the body by cells, tissues, and organs. Two hours lecture. One hour quiz. Four hours laboratory. Three hours credit. First semester.

Barker and Assistant

The School of Fine Arts

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics.

PAUL HENRY GRUMMANN, A. M., Director of the School of Fine Arts and Professor of Modern German Literature.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy, in charge of Aesthetics.

EVERETT NEWTON BOWMAN, 1st Lieutenant of Infantry U. S. A., Professor of Military Science and Tactics.

HENRIETTA McELROY BROCK, Instructor in China Painting.

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Head Professor of Physical Education and Director of Men's Gymnasium.

CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures.

WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts.

HARRIET ALICE HOWELL, A. M., Adjunct Professor of Elocution and Dramatic Art.

FRED MORROW FLING, Ph. D., Head Professor of European History.

PROSSER HALL FRYE, A. B., Head Professor of Rhetoric.

SARA SHEWELL HAYDEN, Associate Professor of Painting and Drawing.

JAMES THOMAS LEES, Ph. D., Head Professor of Greek History and Literature.

ALICE BAIRD ENSIGN, A. B., Adviser to Women.

INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education and Director of Women's Gymnasium.

- LOUISE POUND, Ph. D., Professor of the English Language.
JESSE EPHRAIM RASMUSEN, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design.
CARRIE BELLE RAYMOND, Director of Music.
ROBERT D. SCOTT, A. M., Assistant Professor of English Literature.
* CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.

Committees of the Faculty

- Collections and Exhibits—Alexander, Brock, Dann, Hayden.
Advanced Degrees—Alexander, Dann, Hayden.
Advanced Standing—The Chancellor, Director, Inspector of High Schools.
Dramatic Organizations and University Plays—Howell, Conklin, Heppner, Pound, Scott.
Musical Organizations and Musical Functions—Raymond, Alexander, Dann.
Special Committee on Courses in Architecture—Stout, Chatburn, Dann, Hayden, Rasmusen, Slaymaker.

* Leave of absence.

ORGANIZATION

By the action of the Regents of the University of Nebraska, the School of Fine Arts was reorganized in July, 1912, as a part of the College of Arts and Sciences. The school will include the work offered in Aesthetics; Drawing and Painting; Elocution and Dramatic Art; the History and Criticism of the Fine Arts; Architecture; and Music.

The School of Fine Arts will offer two special courses leading to the A. B. degree in the College of Arts and Sciences; in the first, Drawing and Painting will form the nucleus; in the second, Dramatic Art. The purpose of these courses is primarily cultural, but they offer an excellent basis for advanced work in artistic technique. A committee has been appointed to outline a course in Architecture, which will be announced as soon as it is approved.

ENTRANCE REQUIREMENTS

As a part of the College of Arts and Sciences, the School of Fine Arts maintains the following entrance requirements, which hold for all the undergraduate colleges of the University.

Required Subjects—	Points
English	4
History (European) (a)	2
Language (Foreign) (b)	6
Mathematics	4
Science (Laboratory) (c)	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school	12
Total.....	30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended.
- (c) Science: It is recommended that Physics be offered in meeting the science requirement.

Adult Special Students.—Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training

has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as may be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

Special Students. Although it is the main purpose of the school to encourage students of college grade to take up work in the fine arts, it is recognized that an opportunity should be offered for children and adult students of unusual talent, who are unable to satisfy the entrance requirements. Since these do not come under the regular category of University students, special fees ranging from \$10 to \$25 per semester will be charged.

REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. On the opening of registration days of the semester, the candidate presents himself in person, at the Registrar's office (Administration Hall), where he receives instructions as to such other steps as may be necessary to complete his registration. Students who wish to enroll for the four-year special courses in Drawing and Painting or in Dramatic Art will consult the Director before completing their registration with the Dean of the College of Arts and Sciences.

REGULAR UNIVERSITY FEES

MATRICULATION

Matriculation fee	\$5.00
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INCIDENTAL

Incidental fee, each semester.....	3.00
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LIBRARY

Library fee, each semester.....	1.00
For non-resident students, each semester (Tuition).....	15.00

FINE ARTS

For special students not regularly matriculated in the University.

Drawing and Painting, including use of studio:

One lesson a week, each semester.....	\$10.00
Students under 16 years, one lesson a week.....	6.00
Two lessons a week, each semester.....	18.00
Three lessons a week, with use of studio daily, each semester...	25.00

China Painting, including use of studio:

One lesson a week, each semester.....	12.00
Two lessons a week, each semester.....	23.00
Three lessons a week, each semester.....	33.00

LOCATION AND EQUIPMENT

The School of Fine Arts occupies the third floor of the University Library Building. Here the fine arts collections of the University are housed in accordance with approved methods. The collections include twenty-five hundred prints of the masterpieces properly labelled and cataloged. Card catalogs of original paintings owned in Nebraska are also provided and are accessible to the public. An excellent collection of plaster casts and still life objects is on exhibition in the corridors and the gallery. The Fine Arts Gallery, a well lighted and spacious room, is provided with tables and may be used as a study room daily from 9 till 12 and 2 to 5. It contains copies of the masterpieces, kindly loaned by Professor Hayden, and the pictures of the Nebraska Art Association and the University, including the following paintings:

Edward H. Barnard—*The Landmark*, Lucy Conant—*The Marshes*, Andre Dauchez—*The Reefs*, Chas. W. Eaton—*Canal at Bruges*, Herbert Faulkner—*Venice*, Birge Harrison—*Harvard Bridge*, Sara S. Hayden—*The Girl in Green*—*Portrait of A. H. Edgren*—*Portrait of Ellen Smith*, Sara W. More—

Portrait of Charles H. Gere, Elizabeth Nourse—Little Peasant of Brittany, Leonard Ochtman—Evening on the Mianus Bridge, Cora Parker—A Brittany Kitchen—The Prune Orchard, Edward H. Potthast—The Waning Day, Robert Reid—The Golden Screen, George Gardner Symons—Vibrant Notes of Autumn.

NEBRASKA ART ASSOCIATION

The Nebraska Art Association, as at present constituted, was incorporated in May, 1902, with a capital stock of one thousand dollars, divided into one hundred shares of ten dollars each. It aims to advance art in all its various branches; to disseminate information in regard to art through lectures, art entertainments, exhibitions of original works in oil, water color, statuary, bric-a-brac, ceramics and curios, and by other appropriate means; to purchase from time to time, for a permanent art gallery, original works of art; and to encourage art education.

In accordance with the purposes for which the association is organized, no dividends shall ever be paid upon its stock, nor shall any trustee or officer receive any remuneration for his services. All of the receipts and proceeds coming to the association from whatever source shall be used to further the objects above mentioned.

The stockholders are the governing members of the association. They elect annually from their number a board of twelve trustees, who manage the affairs of the association. The trustees choose their own officers. The governing members, with their families, are entitled to admission to all exhibitions and receptions of the association.

The annual members consist of all those who pay the annual fee of one dollar, which entitles them to admission to all exhibitions given by the association during that year.

An invitation is cordially extended to all public spirited citizens of Nebraska to become either stockholders or annual members of the Nebraska Art Association.

OFFICERS

Don L. Love.....	President
W. A. Selleck.....	Vice-President
W. E. Hardy.....	Treasurer
Mrs. Dean R. Leland.....	Secretary

EXHIBITIONS

The Annual Exhibition of the Nebraska Art Association is held in the Fine Arts Gallery of the University. This is the only exhibition involving

an admission fee, and the proceeds are devoted to the purchase of original paintings to be added to the collection of the association. Students are admitted at one-half the usual rates. At all other times special exhibits are on display and are accessible to the public free of charge. In addition to the collections of the University, loan exhibits are procured whenever they are available.

SPECIAL LECTURES

Special lectures by experts are provided from time to time and are free to students and the public.

UNIVERSITY CHORUS

Musical. The University Chorus, open to all students, gives each year several cantatas and oratorios and participates in the May Musical Festival. The Cadet Band, a military band, gives several home concerts annually and furnishes music on occasions of general University interest.

GLEE AND MANDOLIN CLUB

The Glee and Mandolin Club gives concerts in Lincoln and throughout Nebraska and adjoining states.

KOSMET KLUB

The Kosmet Klub is an organization of upper classmen, to promote the interests of musical productions in the University. Its purpose is to produce each year an original musical comedy, written and played by students. Membership is by election of the club.

DRAMATIC CLUB

The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election.

RECITALS AND DRAMATIC PERFORMANCES

Dramatic performances and recitals by advanced students of elocution and dramatic art, will be scheduled in the state, provided they do not interfere with the regular work. Applications may be sent to the director.

SPECIAL COLLEGE COURSES

Special four-year college courses in Painting and Drawing, and in Dramatic Art lead to the A. B. degree and are of a broadly cultural

character. By making the courses required throughout, it is possible to correlate the work carefully. They differ from the general courses in the College of Arts and Sciences in that they substitute work in Drawing and Painting, and Dramatic Art for certain groups regularly required in the College. When conflicts in courses occur substitutions may be made by the Director.

DRAMATICS

FRESHMAN

First Semester		Second Semester	
	Hours		Hours
Rhetoric I.....	2	Rhetoric II.....	2
Elocution I.....	2	Elocution II.....	2
Phonetics I.....	1	Phonetics II.....	1
Physiology.....	3	Physiology.....	3
* Greek History.....	3	Roman History.....	3
† French or German.....	5	French or German.....	5
Phys. Cult. or Mil. Drill.....	1	Phys. Cult. or Mil. Drill.....	1
	<hr/> 17		<hr/> 17

SOPHOMORE

Elocution.....	2	Elocution.....	2
Hist. of Eng. Lit.....	3	Hist. of Eng. Lit.....	3
Eng. Lit. (Shakespeare).....	3	Eng. Lit. (Shakespeare).....	3
† French or German.....	5	French or German.....	5
Greek Drama.....	2	Greek Drama.....	2
Phys. Cult. or Mil. Drill.....	1	Phys. Cult. or Mil. Drill.....	1
	<hr/> 16		<hr/> 16

JUNIOR

† Dramatics.....	1	Dramatics.....	1
History of Culture.....	3	History of Culture.....	3
Psychology.....	3	Psychology.....	3
English Lit. (Browning).....	2	English Lit. (Browning).....	2
French or German.....	5	French or German.....	5
§ Chorus.....	1	Chorus.....	1
Phys. Culture.....	1	Phys. Culture.....	1
	<hr/> 16		<hr/> 16

* Students who present entrance credits in Greek and Roman History will substitute European History 1 and 2.

† Students must take 15 hours of both German and French. They may arrange their work in these departments in any manner that meets these requirements.

‡ Intensive study of a part, presented in a play or public recital.

§ Students who must be excused from chorus will substitute a 3-hour course for a 2-hour course with approval.

SENIOR

First Semester		Second Semester	
	Hours		Hours
Dramatics	1	Dramatics	1
Aesthetics	3	Aesthetics	3
French Drama	3	German Drama.....	3
Comp. Literature.....	2	Comp. Literature.....	2
Hist. of Theatre.....	2	Hist. of Theatre.....	2
* Electives	3	Electives	3
Phys. Culture	1	Phys. Culture	1
† Chorus	—	Chorus	1
	16		16

PAINTING AND DRAWING

FRESHMAN

Rhetoric I.....	2	Rhetoric II.....	2
Freehand Drawing.....	3	Freehand Drawing.....	3
Perspective	3	Perspective	3
‡ German or French.....	5	Hist. Early Christian Art 4....	2
History of Classical Art 3.....	2	German or French.....	5
Phys. Cult. or Mil. Drill.....	1	Phys. Cult. or Mil. Drill.....	1
	16		16

SOPHOMORE

Drawing and Painting.....	2	Drawing and Painting.....	2
Physiology	3	Physiology	3
Architecture 9	2	Architecture 10	2
Hist. of Eng. Literature.....	3	Hist. of Eng. Literature.....	3
‡ French or German.....	5	French or German.....	5
Phys. Cult. or Mil. Drill.....	1	Phys. Cult. or Mil. Drill.....	1
	16		16

JUNIOR

Drawing and Painting.....	2	Drawing and Painting.....	2
Psychology	3	Psychology	3
History of Culture or European		History of Culture or European	
History I.....	3	History II.....	3
Italian	3	Italian	3
‡ German or French.....	5	German or French.....	5
	16		16

* Students intending to teach will elect work in Education.

† Students who must be excused from chorus will substitute a 3-hour course for a 2-hour course with approval.

‡ Students must complete 15 hours of both German and French. They may arrange their work in these departments in any manner that meets these requirements.

SENIOR

First Semester		Second Semester	
	Hours		Hours
Drawing and Painting.....	2	Drawing and Painting.....	2
Clay M., Wood C. or Decorative Art	1	Clay M., Wood C. or Decorative Art	1
Aesthetics	3	Aesthetics	3
Interpretation Italian Art 5.....	3	Interpretation Italian Art 6.....	3
Italian	2	Italian	2
* French or German.....	3	French or German.....	3
Eng. Lit. (Browning).....	2	Eng. Lit. (Browning).....	2
	<hr/> 16		<hr/> 16

* Students must complete 15 hours of both German and French. They may arrange their work in these departments in any manner that meets these requirements.

COURSES OF STUDY

AESTHETICS

Professor Alexander

41. **Philosophy of Criticism**—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester. Alexander

42. **Philosophy of Criticism**—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus' *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester. Alexander

50. **Humanism**—Historical phases of the conception of culture: The Graeco-Roman ideal of enlightened living; humanism of the Italian Renaissance; the 18th century "Enlightenment" and political humanitarianism; the metaphysical humanisms of today. Three hours attendance. Three hours credit. Second semester. Alexander

DRAWING AND PAINTING

Associate Professor Hayden, Instructor Brock

1. **Elementary Drawing**—Drawing from geometric solids, still-life and antique fragments in outline and in light and shade. Study of values in pencil and charcoal. Application of the principles of perspective in free-hand drawing. One to three hours credit. One hour credit for each three-hour period of attendance. First semester. Hayden

2. **Elementary Drawing**—Course 1 continued. Second semester.

3. **Advanced Drawing and Color Work**—Heads and figures in charcoal from the antique for the study of construction and as a preparation for drawing from life. Still-life in oil and water color. Pen and ink with reference to the processes of reproduction. Occasional sketching from costumed model. One to three hours credit. One hour credit for each three-hour period of attendance. First semester. Hayden

4. **Advanced Drawing and Color Work**—Course 3 continued. Second semester.

5. Life—Drawing and painting from costumed model in charcoal, oil and water color. Study of the construction and action of the human figure. Exercises in pictorial composition. One to three hours credit. One hour credit for each three-hour period of attendance. First semester.

Hayden

6. Life—Course 5 continued. Second semester.

7. Theory and Practice of Design—Study of the fundamental principles of design with practical application to china painting, stenciling, decorative leather, metal work, etc. Students work out original designs in space and line composition followed by the study of color harmony. Decorative lettering is included in this course. One hour credit. First semester.

Hayden

8. Theory and Practice of Design—Course 7 continued. Second semester.

NOTE: Classes in the practical application of design in basketry, simple sheet metal work and decorative leather work will be formed on demand.

9. Public School Drawing—A course intended for public school teachers with special reference to the work required in the city schools. It is designed to give increased proficiency in drawing and to establish a foundation for class room criticism. Assigned exercises are criticised before the class from the standpoint of design, composition and draughtsmanship. One hour attendance. One hour credit.

Hayden

10. Public School Drawing—Course 9 continued. Second semester.

NOTE: An evening class in freehand drawing to meet the needs of mechanics, engineers, designers and others employed during the day will be formed on demand. Hours 7:30 p. m. to 9 p. m., one night per week. Terms \$3 per semester.

Hayden

11. China Painting—The application of original and conventional design on china. Firing of china. One hour credit if taken with Course 7. First semester.

Brock

12. China Painting—Course 11 continued. Second semester. One hour credit if taken with Course 8.

Brock

13. China Painting—Figure painting on porcelain, realistic and conventional. Enamels. Firing. Prerequisite: Courses 7, 8, 11, 12. One hour credit. First semester.

Brock

14. China Painting—Course 13 continued. Second semester.

Brock

ELOCUTION AND DRAMATIC ART

Adjunct Professor Howell, Professor Pound.

1a. Reading and Speaking—The aim is to secure naturalness and sincerity in reading and speaking, to preserve the individuality of the student, and to obtain freedom from self-consciousness. Special attention to voice culture, correct articulation and definite gesture. Analysis and vocal interpretation of selections from orators, essayists, dramatists and poets. Class recitals. All students who register for this course are required to register for 1b. Three hours attendance. Two hours credit. First semester. Howell

1b. Phonetics—A general introduction to the subject. Lectures and exercises. The course directs attention to the accurate pronunciation of English. It may also serve as a basis for the study of the historical phonology of the various languages. One hour attendance. One hour credit. First semester. Pound

2a. Reading and Speaking—1a continued. Prerequisite: 1a and 1b. Second semester. Howell

2b. Phonetics—1b continued. Prerequisite: 1a and 1b. Second semester. Pound

3. Dramatic Interpretation—Advanced study of voice culture, impersonation, pantomime and gesture. Interpretation of various kinds of dramatic literature—prose and poetry. Special attention to the oration and critical study of *Hamlet*, *As You Like It*, *Macbeth*, *Romeo and Juliet*, *Much Ado About Nothing*, *Twelfth Night*, *The Rivals*, and some modern play. Analysis of plot, character and incidents. Dramatic presentation of principal scenes before the class. Prerequisite: Courses 1 and 2. Three hours attendance. Two hours credit. First semester. Howell

4. Dramatic Interpretation—3 continued. Second semester.

Courses in Dramatics are offered by the departments of Elocution and Dramatic Art, Germanic Languages and Romance Languages. Not more than four one-hour courses will be credited to any student.

5. Dramatics—An intensive study of the drama and the oral interpretation of masterpieces of literature with the aim of acquiring a repertoire. Each member of the class is required to interpret various kinds of selections for a program. Each member is also required to take part in character interpretations of scenes from dramas presented before the class and

is given the opportunity of appearing in a public recital or a public play. Prerequisite: Courses 1, 2, 3, and 4 or the consent of the instructor. One hour attendance. One hour credit. First semester.

Howell, Heppner

6. **Dramatics**—5 continued. Second semester.

7. **Dramatics**—5 and 6 continued. Work planned with reference to the history of the drama and the theatre. Reports by members of the class on assigned topics. The writing of dramatic criticisms and the coaching of plays. Individual public recitals by members of the graduating class. One hour attendance. One hour credit. First semester. Howell

8. **Dramatics**—7 continued. Second semester.

9. **Teachers' Course**—Special course for teachers in city schools and for students in the Teachers College. Intended to strengthen the teaching of reading by the formation of an intelligent reading habit. Analysis of selections from the best literature and the application of principles of interpretation to class-room and platform work. Special attention to articulation, pronunciation, and voice-development. The presentation in pantomime of characters and scenes from life and literature. Individual criticism. Discussion of programs and of supplementary literature for class-room use. Two hours attendance. Two hours credit. First semester. Howell

10. **Teachers' Course**—9 continued. Second semester.

ENGLISH LITERATURE

Professor Pound, Assistant Professor Scott

3. **Shakespeare**—First studies in the literary art of this author. *Macbeth*, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester.

Scott

4 **Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester. Scott

5. **The History of English Literature**—A survey of the development of English Literature; the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer, Spencer, Milton, and others. Three hours attendance. Three hours credit. First semester.

Pound

6. **The History of English Literature**—5 continued. Second semester.

EUROPEAN HISTORY

Professor Fling, Adjunct Professor Pfeiffer, Instructor Needham

1. **European History from the Germanic Migrations to 1871**—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester. Fling, Pfeiffer, Needham
2. **European History**—1 continued. Second semester.

FRENCH

Professor Conklin, Assistant Professor Korsmeyer, Adjunct Professor Reese

1. **French**—Introductory course. Five hours attendance. Five hours credit. First semester. Conklin, Korsmeyer, Reese
2. **French**—1 continued. Second semester.

For more advanced work see Romance Languages, general catalog.

GERMAN

For instructors, see general catalog.

1. **Beginners' German**—A careful and thorough study of the fundamentals of the language; pronunciation, the inflectional systems, sentence-structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings. Five hours. First semester.

Grummann, Schrag, Heppner, Chamberlain, Baumgartner, Alexis

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Bacon's *Im Vaterland*, Müller's *Neue Märchen*, Blüthgen's *Das Peterle von Nürnberg*, Seidel's *Leberecht Hühnchen*, Stökl's *Alle fünf*, etc. Conversation and composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

For more advanced work see Germanic Languages, general catalog.

GREEK DRAMA

Head Professor Lees

1. **Greek Drama**—A study of the Greek drama in English translation. Two hours attendance. Two hours credit. First semester. Lees
2. **Greek Drama**—1 continued. Two hours attendance. Two hours credit. Second semester. Lees

HISTORY AND CRITICISM OF THE FINE ARTS

Professor Dann, Associate Professor Hayden

The following courses have to do with the principles of aesthetic criticism, and the evolution of art in its relation to nature, to science, and to social influences. The course consists of lectures and discussions in class, collateral reading, and preparation of papers on assigned topics:

1. **Interpretation of Art**—This course is introductory to the general subject, and comprises a compendious survey of the chief periods in the history of art, together with practice in interpreting pictures, sculpture, architecture, and decorative designs. It is intended to help students to a sound criticism and appreciation of works of art. Examples are taken from various periods and schools. Open to all except freshmen. Two hours attendance. Two hours credit. First semester. Dann
2. **Interpretation of Art**—Course 1 continued. Second semester.
3. **History of Greek and Roman Art**—A study of classical architecture, sculpture, and the minor arts. Two hours attendance. Two hours credit. First semester. Dann
4. **Christian Art**—From the decline of Rome to the thirteenth century. Moorish architecture and decoration are also considered in this course. Two hours attendance. Two hours credit. Second semester. Dann
5. **History of Italian Art**—From Cimabue to Perugine. Open to juniors and seniors. Courses 1 and 2 are prerequisite. Three hours attendance. Three hours credit. First semester. Dann
6. **History of Italian Art**—From Raphael to Tintoretto. Prerequisite: Course 5. Three hours attendance. Three hours credit. Second semester. Dann
7. **Contemporary Painting and Sculpture**—A study of the aims, methods and technique of contemporary artists. Explanation of mediums and technical terms. Discussion of important art movements that have influenced the work of modern artists. Comparison of contemporary national schools. Open to Juniors and Seniors. Two hours attendance. Two hours credit. First semester. Hayden
8. **Dutch and Flemish Painters**—Two hours attendance. Two hours credit. Not given in 1913-14. Dann
9. **Cathedral Architecture**—A study of the construction and decoration of Romanesque and Gothic churches in Italy, France, Germany, and England.

Open to all except freshmen. Two hours attendance. Two hours credit.
First semester. Dann

10. **Modern Architecture**—The architecture of the Renaissance is taken up and discussed, including the points wherein it resembles or differs from classical architecture. The study and criticism of modern buildings of architectural pretensions also receive some attention. Open to all except freshmen. Two hours attendance. Two hours credit. Second semester.

Dann

MILITARY DRILL—BAND

Lieutenant Bowman

Required of all cadets except members of the Band

A1. **First Year Infantry Drill**—First Regiment: practical—infantry drill and rifle practice. Four hours attendance. One hour credit. First semester. Bowman

A2. **First Year Infantry Drill**—First Regiment: practical—same as A1 and guard duty. Four hours attendance. One hour credit. Second semester.

Cadet Band

The Cadet Band is open to all male students. Cadets not in the band who desire to transfer to it should apply to the Commandant.

The band is organized as a part of the first battalion and is under military discipline at all times. One hour credit is given for each third and fourth year membership.

B1. **First Year Cadet Band**—Four hours attendance. (a) Music. (b) Practical—infantry and band drill. One hour credit. First semester.

(a) Cornell

(b) Bowman

B2. **First Year Cadet Band**—B1 continued. Second semester.

MUSIC

Mrs. Raymond, Director

3. **Chorus Conducting**—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus gives a series of Vesper Services assisted by a string quartet. One of the Grand Operas is studied each year and "*The Messiah*" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Chorus Conducting**—3 continued. Second semester.

PERSPECTIVE

Associate Professor Rasmusen

1. Geometrical construction, principles of mechanical drawing, projection, and isometric drawing. One hour attendance. Eight hours drawing. Three hours credit. Rasmusen

2. Elements of descriptive geometry, theory of perspective, shades and shadows. Prerequisite: Perspective 1. One hour attendance. Eight hours drawing. Three hours credit. Rasmusen

PHYSICAL EDUCATION

Assistant Professor Gittings, Instructor Beghtol

WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half-hours' attendance. One hour credit. First semester. Gittings, Beghtol

22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four half-hours' attendance. One hour credit. Second semester. Gittings, Beghtol

RHETORIC

For instructors, see general catalog

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters.

Frye, Buck, Gass, McPhee, Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters.

Roster of Students and Degrees

and Index to Complete Catalog

DEGREES CONFERRED IN 1911-1912*

Mid-Winter Commencement—1912

THE COLLEGE OF ARTS AND SCIENCES

Bachelors of Arts—9

Randall Fuller Curtis	Carrie Lula Lute
Earl Harrison Davis	Frank C. Miles
Guy Russell Davis	Beatrice Moffett
Zora Elizabeth Fitzgerald	Bertha Shanek
Margaret Hazel Hathaway	

Bachelor of Science—1

Morris Joslin Blish

THE COLLEGE OF ENGINEERING

Bachelors of Science—7

George Morris Ackerman	Ezra Ditterline
Edmond B. Berger	Walter Howard Laubach
George Blanchard Blackstone	Frank Wolessensky
Waring Lafayette Codington	

THE COLLEGE OF AGRICULTURE

Bachelors of Science—3

Edwin Lovejoy Currier	Richard Allison Phillips
Lucy Hortense Hammond	

THE COLLEGE OF LAW

Bachelors of Laws—4

Erl Benton Elliott	William J. Scott
John Clancy Mullen	Sylvester Vaclar Shonka

THE GRADUATE COLLEGE

Masters of Arts—4

Samuel Coopersmith	Henry H. Hahn
Silas Calvin Feemster	John Torrence Tate

Degrees granted at the meeting of the Board of Regents on Monday, June 10th

THE COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts—1

Dana Burgess Van Dusen

THE COLLEGE OF LAW

Bachelor of Laws—1

Sam Rea Buck

THE COLLEGE OF MEDICINE

DEGREE IN PHARMACY

Pharmaceutical Chemist—1

Edo Hilding Anderson

* Since this catalog is printed before the June and July graduation exercises held at the close of the University year, 1912-1913, the names here published are of those who were granted degrees between September 1, 1911, and September 1, 1912, which dates mark a regular University year.

These time limits also obtain with respect to certificates granted.

June Commencement—1912

THE COLLEGE OF ARTS AND SCIENCES

Bachelors of Arts—159

Bess Alexander
 Arthur Eugene Anderson
 Ellen Louise Anderson
 Ellen Amelia Anheuser
 Frieda Elisabeth Arnold
 Harry Ross Ball
 Louise Barr
 George Lee Basye
 Eula Kathryn Bates
 William La Verne Bates
 Charles Wesley Becker
 Grace Mildred Bennett
 Lela Berry
 Edna Biles
 Ethel Blake
 Lella Isabel Bon
 Ora Geraldine Bradbury
 Mabelle Olive Breese
 Hattie Mabel Broderick
 Elsie Emma Brown
 Ethel Brown
 June Brown
 Grace Helen Burritt
 Wayne Tom Carroll
 Donald Isaac Castile
 Alice Orintha Chambers
 Frank Ernest Chambers
 Clarence Leon Clark
 Leroy Benjamin Clark
 Cecile Eliza Cobb
 Verna Grace Coleman
 Wauneta Emma Cook
 Laura Opal Coryell
 Charles Cloyd Creekpauum
 Richard Oliver Cromwell
 Wilma Ruth Crossley
 Carl Edwin Dalling
 Celia Grace Davis
 Mabelle Eva Davis
 Frances Aileen Dunham
 Creta Dunlavy
 Lucile Blanche Eads
 Rebecca Finley Eversole
 Robert Likes Ferguson
 Frances Maud Flock
 Donald Folsom
 Ira George von Forell
 Hazel Lois Foster
 Frances Edith Frances
 Gustave Otto Fuchs
 John William Gamble
 Grace Marie Gannon
 Ralph Wallace Garrett
 Frances Emma Gibson
 Mabelle Frances Gowing
 Harriet Graves
 Florence Marie Grimm
 Ella Belle Gunn
 Albert Dare Hall

Lloyd Dickson Halsted
 Fred Reinig Hanley
 Emma Evelyn Hanthorn
 Mark Cromwell Hargrave
 Thomas Jean Hargrave
 Eleanor Octavia Heimer
 Irma Louise Herman
 Hazel Clara Hogrefe
 Amy Marie Holcomb
 Searle Francis Holmes
 Ethel Katherine Hummel
 Thomas Albert James
 Stella Louise Jewell
 Harry Walter Johnson
 Effie Louise Jones
 Mariel Theresa Jones
 Alice Kate
 Mildred Ida Kay
 Anna Barbara Kess
 Nellie Content Kimberly
 Margaret Anita Kunkel
 George William Leamer
 Bernice Marie Lee
 Leta Blanche Linch
 Cornelia Frances Lindsey
 Charles Lester Littell
 Kathryn Marie Lowry
 Blanche Margaret Lyman
 Flossie Louise Lyons
 George Lzicar
 William Estill McConnell
 Jean Elizabeth McGabey
 Anna Claire McKinnon
 Grace Norris McLain
 Cecelia Genevieve Malone
 Elsie Forest Mathews
 Agnes Matrau
 May Maurine Miller
 Janice Elizabeth Morgan
 Reuben Allyn Moser
 Ruth Munger
 Emma Josephine Oak
 Harold Allen Osborne
 Fay Osterhout
 Anna Charlotte Pagels
 Irwin Ross Palmer
 Clara Helen Pearson
 Orville Hugh Pierce
 John Franklin Power
 Walter Robert Power
 Eva Carolyn Ptacek
 Adalline May Quaintance
 Edna May Randall
 Bertha Emma Range
 Robert Enos Benjamin Rice
 Paul Sheldon Rivett
 Bertha Alice Roach
 Florence Ethel Robb
 Paul Brandt Roen

David Miles Rogers
 Ward Matter Rubendall
 Florence Frances Rush
 Richard Allen Russell
 Harriet Missouri Rymer
 Loy Earl Sackett
 Grace Murray Salisbury
 Ethel Augusta Scott
 Marjorie Cornelia Selleck
 Arthur Lawrence Smith
 Lora Viola Smith
 Hazel Frost Snell
 Erwin Paul Snyder
 Earle Rowe Spaulding
 James Benedict Spaulding
 Julia Matilda Spear
 Alma Ionia Spelts
 Erma Sprague
 Hazel Martha Stanton
 Helen Margarette Steiner
 Elvessa Anne Stewart

Marguerite Theresa Stewart
 Alma Leona Sullivan
 Mabel Gertrude Sullivan
 Hazel Ferne Teeter
 James Leonard Tewell
 Gladys Elizabeth Thomas
 Rachael Merle Thomas
 Lois Margaret Thompson
 Margaret Louise Thompson
 Mary Ruth Tibbets
 Grace Isabelle Walker
 Esther Warner
 Kenneth Fisher Warner
 John Cicero Watson, Jr.
 Frances Alice Whaley
 Hazel Vera Williams
 Clara Owsley Wilson
 Wade Angus Wilson
 Doris Wood
 Alwine Caroline Wilhelmina Zumwinkel

Bachelors of Science—21

Alfred Washington Adson
 George Worthington Covey
 Ralph Ward Dawson
 Anna Merritt East
 Harold Walter Elley
 John Paul Ham
 Charles Wesley Warren Harms
 Robert Steele Irvine
 John Jay Keegan
 Earl Albert Linger
 Earle Lester Lionberger

Mollie June McComb
 Jesse Uriah Malick
 Seth Herbert Miles
 Allen Thurman Newman
 Alfred Edwin Parmelee
 Ethel Jane Purinton
 Andrew Sinamark
 Harry Landis Thompson
 Joseph William Tobiska
 Blaine Augustus Young

COLLEGE OF AGRICULTURE

Bachelors of Science—23

Lewis Robbins Anderson
 Sarah Florence Bailey
 Bert M. Barber
 William Walter Bennett
 Mildred Lorretta Bevins
 Ralph Ewart Bodley
 William P. Forbes
 Samuel Vanstone Fullaway, Jr.
 Raymond Daniel Garver
 Albert Henry Gilbert
 Louise Guthrie
 Richard Terrell Guthrie

Ruth Haller
 Evelyn Eleanor Johnson
 Dora Aldona Kidd
 Pattie Mary Metzger
 Talmage Eugene Miller
 Thomas Wesley Moseley
 Arthur Elton Nelson
 Edith Violet Ohlsen
 John Anderson Ratcliff
 Grace Ryan
 Ernst Theodore Frederick Wohlenberg

COLLEGE OF ENGINEERING

Bachelors of Science—42

Bruce Raymond Beckwith
 Stanley Bracken
 Walter Frank Chauner
 Everette Edwin Dale
 Reginald Emmett Davies
 Ira Willard Dye
 Charles Erickson
 Richard Joseph Foster
 George Herman Glade, Jr.
 Benjamin Harrison Groves
 John Holling
 Frank Lorenzo Jones

Claude Dennis Kinsman
 Ralph Ernest Kiplinger
 William Jennings Krug
 George Kinney Leonard
 Eber Brock Lewis
 Emil August Lindberg
 Gus Adolph Lofgren
 James Russell Ray Martin
 Cleo Jesse Mowry
 William Henry Noelting
 William Charles Oest
 Edward O'Rourke

Carl Martin Overman
 Henry Bennett Pearse
 Henry Hammond Plumb
 Josiah Frank Relf
 John Raymond Rippey
 Carl Rohwer
 Elmer Alpha Root
 John Kent Selleck
 Harold Charles Slater

John Stibal, Jr.
 Benjamin Harrison Thompson
 George Lafayette Vlasnik
 Helmuth Henry Max Voderberg
 Harold Robert Wake
 Delbert Ernest Wallengren
 Lloyd De Witt Walter
 Byrel Nevil Wilson
 Ivan Daley Wood

COLLEGE OF LAW

Bachelors of Laws—37

Charles Glenn Adams
 Ernest Franklin Armstrong
 Robert Henry Beatty
 John Henrich Bloedorn
 John Louis Bouchal
 Dale Skiles Boyles
 John Alexander Christmas
 Samuel Orville Cotner
 Ralph Emmons Courtneage
 Anthony Z. Donato
 Ralph De Witte Fuller
 Glen Thomas Gibson
 Harold Smith Graham
 Willard Russell Griswold
 Vincent Charles Hascall
 Robert D. Hawley
 Bruce Bagley Johnson
 John Willis Jones, Jr.
 Henry Carl Luckey

Frank Harold Mizera
 Ralph Stuart Moseley
 Frank John Munday
 John Edgar Okoy
 Ernest Henry Phares
 Joel De Witt Pomerene
 John Franklin Power
 Rexford Charles Rankin
 John Fred Rohn
 August Carl Schmidt
 Roswell Johnson Shurtleff
 Clarence Monroe Somerville
 William Marvin Somerville
 Carroll Orville Stauffer
 Thomas Swearingen
 Robinson Merideth Switzler
 Walter Artemus Vasey
 Minor Fleming Wasson

COLLEGE OF MEDICINE

Doctors of Medicine—9

Andrew Dobbie Brown
 Ralph Philip Higgins
 James Taliaferro Maxwell
 Walter Chafey Moodie
 Clark L. Phillips

Weaver Aldus Rush
 George Irving Selson
 Jesse Day Taylor
 James C. Tucker

DEGREES IN PHARMACY

Graduates in Pharmacy—5

Elwood Blake Chappell
 Raymond William Bauer
 Frank Huntsman

Samuel Thomas Crouse
 Earl Fiske Walker

Pharmaceutical Chemists—2

Lilburn B. Lake

Joseph Emmanuel Sohlberg

THE GRADUATE COLLEGE

Masters of Arts—38

Percy Bousfield Barker, A. B. 1908—Geography, Economic Geology
 Charles Emile Benson, A. B. 1911—Philosophy, Education
 Charles Eden Carroll, A. B. 1905, Morningside College—Political Science, Sociology
 Clifford Norman Catlin, A. B. 1903—Agricultural Chemistry
 Edgar Clippinger, A. B. 1901, Doane College—Educational Theory and Practice, Sociology
 Frank Trimmer Cole, C. E. 1909, Ohio Northern University—Civil Engineering, Educational Theory and Practice
 Clare Brown Cornell, A. B. 1905—Education, Philosophy
 Mary Crawford, A. B. 1907—English Language and Literature, Germanics
 Mae Darling, A. B. 1906—European History
 Frank Dickinson, A. B. 1911—Philosophy, Sociology
 Floyd Whitney Gail, A. B. 1911—Botany
 Annie Hawes, B. L. 1902, Nebraska Wesleyan University—Political Science and Sociology

- Daniel W. Hayes, A. B. 1905, Nebraska Wesleyan University—Educational Theory and Practice
 Frank Alfred Hays, B. S. 1908, Oklahoma Agricultural College—Animal Husbandry, Farm Management
 Eugene Schofield Heath, A. B. 1906, Ohio Wesleyan University—Botany
 Virginia Shropshire Heath, A. B. 1906, Goucher College—English Literature, Philosophy
 Cora Belle Hill, A. B. 1906—Mathematics, Educational Theory and Practice
 Ethel Florence Hutchinson, A. B. 1911—English Literature, European History
 Edward Benjamin Jacobson, A. B. 1910, Nebraska Wesleyan University—Philosophy, Sociology
 Theodore Alexander Kiesselbach, A. B. 1907, B. Sc. 1908—Experimental Agronomy
 Minnie Edith Kruckenberg, A. B. 1909—Germanics
 Albert Ray Lang, A. B. 1909, Nebraska Wesleyan University—Education, Educational Psychology
 George Konrad Karl Link, B. Sc. 1910, University of Chicago—Agricultural Botany
 Bertha Musson Luckey, A. B. 1910—Philosophy, Education
 Mary Alice Lynch, A. B. 1905, Notre Dame—American History, Romance Languages
 Clare Mary McPhee A. B. 1902—Education, English Literature
 Louise Wilhelmina Mears, B. E. 1908, Peru State Normal—Geography, English Language and Literature
 Estelle Rees Morrison, A. B. 1910—English Literature, Rhetoric, Philosophy
 William Henry Stephenson Morton, A. B. 1909, York College—Educational Theory and Practice, Sociology
 Arne Kristopher Peitersen, A. B. 1911—Botany
 Frank Herman Reinsch, A. B. 1909—Germanics
 Clayton Ord Rost, B. Sc. 1911—Agricultural Chemistry
 Olenus Lee Sponsler, A. B. 1910, University of Michigan—Botany
 Elsie Warnock, A. B. 1908—English Language and Literature
 Laura Amanda White, A. B. 1904—American History, European History
 George Faxon Williamson, A. B. 1907—Philosophy
 Cora Elizabeth Wise, A. B. 1903—Germanics
 William W. Worster, A. B. 1911, Union College, M. D. 1901, American Medical Missionary College—Chemistry, Physiology, Pharmacology

Masters of Forestry—2

- John Shaw Boyce, B. Sc. 1911—Forestry, Botany
 Otto Frederick Swenson, B. Sc. 1911—Forestry, Botany

Electrical Engineering—1

- John Cameron Hoge, B. Sc. 1910—Electrical Engineering

Doctors of Philosophy—3

- Elisha Benjamin Andrews, A. B. 1870, Brown University—Political Economy, Philosophy
 Laura Belle Pfeiffer, A. B. 1897, A. M. 1906—European History, English Literature
 Mary Sullivan, A. B. 1898, A. M. 1900—English Literature, American History

Summer Session Graduation—1912

THE COLLEGE OF ARTS AND SCIENCES

Bachelors of Arts—23

- | | |
|---------------------------------------|--------------------------|
| Alva Aldus Baer | Lydia Eva Lacey |
| J. Margaret Kyle Barber | Bertha Lucile Melick |
| Arbor Francis Frederick William Barth | Frank Harold Mizera |
| Alfred William Charles Beckman | Charles Wesley Mottinger |
| George Elwin De Wolf | Noel Ardis Negley |
| Donce Griffith | Young M. Park |
| Carolyn Svetla Hanzlik | Cyrus Grammer Phillips |
| Anna Marie Hardy | Mabel Colby Salmon |
| Mary Mills Heacock | Mearl Curtis Smith |
| Anna Maud Hulse | Gertrude Alice Wilcox |
| Verna Gretchen Hyder | Florence Sue Wilson |
| Katey Lora Kinsman | |

Bachelor of Science—1

Andrew Emmett Anderson

THE COLLEGE OF ENGINEERING

Bachelor of Science—1

Leroy Schuyler Lambert, in Electrical Engineering

THE GRADUATE COLLEGE

Masters of Arts—12

Will Everett Atkins, B. Sc. 1901, Nebraska Wesleyan University—Education
 William Eugene Adolphus Aul, B. Sc. 1897, M. S. 1899, Battle Creek College—Education,
 American History
 Burton Albert Burdick, A. B. 1906, Nebraska Wesleyan University—American History,
 Political Science and Sociology
 Joseph Richard Fulk, A. B. 1903—Education, American History, English Literature
 Fred Wenzl Hofmann, B. Sc. 1910—Horticulture
 Robert Francis Howard, B. Sc. 1908, University of Missouri—Horticulture
 Cleveland Kleihauer, A. B. 1907, Cotner University—Philosophy, Sociology
 Leland Judson Lewis, B. Sc. 1909, Grand Island College—Chemistry
 George Paul Luckey, A. B. 1910—Physics
 Albert Allison Reed, A. B. 1908—Education, English Literature
 Otto Wiese, B. Sc. 1911, University of Wisconsin—Chemistry
 Emma Wilhelmson, A. B. 1902—Education, Educational Psychology

Master of Forestry—1

David George White, B. Sc. 1911—Forestry, Botany

Certificates Granted—1912*

THE TEACHERS COLLEGE DIPLOMA AND UNIVERSITY TEACHERS' CERTIFICATE

Bachelors of Arts—55

Ellen Amalia Anheuser	Anna Barbara Kess
Frieda Elisabeth Arnold	Margaret Anita Kunkel
Grace Mildred Bennett	Bernice Marie Lee
Charles Emile Benson	Leta Blanche Linch
Lela Berry	Kathryn Marie Lowry
Edna Biles	Cordelia Elizabeth Luikart
Rachel Nellie Blodgett	Flossie Louise Lyons
Ora Geraldine Bradbury	Jean Elizabeth McGahey
Hattie Mabel Broderick	Bertha Lucile Melick
Grace Helen Burritt	May Maurine Miller
Alice Orintha Chambers	Emma Josephine Oak
Wauneta Emma Cook	Anna Charlotte Pagels
Wilma Ruth Crossley	Clara Helen Pearson
Celia Grace Davis	Eva Carolyn Ptacek
Mabelle Eva Davis	Bertha Alice Roach
Frances Aileen Dunham	Harriet Missouri Rymer
Lucile Blanche Eads	Ethel Augusta Scott
Hazel Lois Foster	Aima Ionia Spelts
Frances Edith Francis	Erma Sprague
Grace Marie Gannon	Hazel Martha Stanton
Mabelle Frances Gowing	Marguerite Theresa Stewart
Florence Marie Grimm	Rachael Merle Thomas
Lloyd Dickson Halsted	Lois Margaret Thompson
Margaret Hazel Hathaway	Margaret Louise Thompson
Irma Louise Herman	Esther Warner
Amy Marie Holcomb	Gertrude Alice Wilcox
Effie Louise Jones	Alwine Caroline Wilhelmina Zumwinkel
Mildred Ida Kay	

* See foot-note on page 462.

Bachelors of Science—3

Sarah Florence Bailey
 Evelyn Eleanor Johnson

Berna Ann Miskell

Physical Education Certificates—2

Verna Grace Coleman

Mabel Colby Salmon

SCHOOL OF AGRICULTURE—60

Orra Scott Adams
 Henry Curtis Beebe
 Carl Elmer Bern
 Frances Boslaw
 Arthur Webster Campbell
 William Cressy Coupland
 Paul Henry Croft
 Lois Elsie Delano
 Ethel Grace Fishback
 Edna Euphemia Ford
 James Wendell Gage
 Fred Jacob Gingrich
 Jay Emory Goffe
 Raymond Chester Graff
 Veda Laurenza Hansen
 Charles William Hill
 Richard Gilbert Hillis
 Edwin Franklin Hoch
 Harry Edwin Huston
 Gladys Johnson
 Herbert Lewis Johnson
 Roy Chester Johnson
 Forrest Raymond Johnston
 Arian Hempel Jones
 Henry Albert Jones
 William Thomas Jones
 Diedrich Keuten
 Albert Sidney Kindig
 Iva Marie Layton
 Hedwig Antonia Liebers

Frederick Wilhelm Lindberg
 Elinor Spurgeon Lindberg
 Hattie Franke Luckey
 Laura Marie Lynn
 Joseph Thomas McCarthy
 Allen Herbert McDonald
 Alford Monroe Major
 Leila Fern Marshall
 John Louman Miller
 Robert Leo Moore
 Edwin Clark Nelson
 Jaroslav Novotny
 Ruth Eleanor Ollis
 Homer N. Otto
 Roy Basting Otto
 Frederick William Paulus
 Moldt Henry Phillipsen
 John Philip Pickering
 Susannah Ring
 Edwin Earl Roy
 Helen Mary Schoenbeck
 Albert Emil Sell
 John Wilhelm Sjogren
 Charles Ray Smith
 Russell Charles Snyder
 Philbert Oscar Swanson
 Benjamin Harrison Thompson
 Elmo Edward Thrapp
 Harley Elijah Trotter
 Florence Lucile Zeller

TEACHERS' COLLEGE HIGH SCHOOL

Candidates for Certificates—30

Alfred Theodore Anderson
 Vale Babcock
 Florence Isabelle Baird
 Gertrude Elizabeth Bauer
 M. Cordelia Condra
 Clarissa Delano
 Paul Morris Dennis
 Sarah A. Edwards
 Marjorie Haas
 Reta Catherine Hollingworth
 Fern Hymer Horton
 Clarence Temple Hurd
 Gladys Malone Lord
 John James Lyons
 Isola Jane Macdougall

B. Lillian Nordstrom
 William Roscoe Perrin
 Ruth Margaret Pope
 Sidney Charles Poska
 Hildegard Huntington Powers
 Juliet Alice Proudfit
 Helen Shepherd
 Mary Sigler
 Edward Kolar Stockfeld
 Ruth Storm
 Ethel May Troyer
 Antoinette Walvoord
 Marian Watkins
 Bonita White
 Leona Cedella Wilson

STATE MILITARY COMMISSIONS—51

Colonel—Arthur Lawrence Smith

Majors—Arthur William Charles Beckman, William Jennings Krug, John Kent Selleck

Captains—George Morris Ackerman, Wayne Tom Carroll, Richard Terrell Guthrie, Allen Thurman Newman, James Benedict Spaulding, Kenneth Fisher Warner

First Lieutenants—William La Verne Bates, Reginald Emmett Davies, Ralph Ernest Kiplinger, Henry Hammond Plumb, Ernest Theodore Frederick Wohlenberg

Second Lieutenants—Clarence Leon Clark, Earl Albert Linger, Henry Bennett Pearse, Harold Charles Slater, Earle Rowe Spaulding

(SCHOOL OF AGRICULTURE)

Colonel—Albert Sidney Kindig

Lieutenant Colonel—Fred Jacob Gingrich

Majors—Orra Scott Adams, Herbert Lewis Johnson

Captains—Jay Emery Goffe, Richard Gilbert Hillis, Henry Albert Jones, Joseph Thomas McCarthy, Edwin Clark Nelson, Homer N. Otto, Roy Basting Otto, Moldt Henry Philipsen, Elmo Edward Thrapp

First Lieutenants—Carl Elmer Bern, Arthur Webster Campbell, William Cressy Coupland, Roy Chester Johnson, John Louman Miller, Albert Emil Sell, John Wilhelm Sjogren, Charles Ray Smith, Harley Elijah Trotter

Second Lieutenants—Edwin Franklin Hoch, William Thomas Jones, Diedrich Keuten, Elinor Spurgeon Lindberg, Jaroslav Novotny, Frederick William Paulus, Russell Charles Snyder, Philbert Oscar Swanson, Benjamin Harrison Thompson

GRADUATE STUDENTS IN 1912-1913

Candidates for the Degree of Doctor of Philosophy

Aul, William Eugene Adolphus.....	College View
B. Sc. 1897, M. S. 1899, Battle Creek College; A. M. 1912, The University of Nebraska	
Education, Political Science and Sociology, American History	
Borrowman, George.....	Lincoln
B. Sc. 1905, University of Minnesota; A. M. 1907, The University of Nebraska	
Chemistry, Geology	
Brethouwer, Berend John.....	Fairmont
A. B. 1909, Cotner University; A. M. 1910, The University of Nebraska	
Philosophy, Education	
Cornell, Clare Brown.....	Lincoln
A. B. 1905, A. M. 1912, The University of Nebraska	
Philosophy, Education	
Currens, Frederick Hawley.....	Omaha
A. B. 1904, A. M. 1907, Coe College	
Chemistry, Bacteriology	
Elmore, Clarence Jerome.....	Grand Island
A. B. 1895, A. M. 1896, The University of Nebraska	
Botany, Geology	
Feemster, Silas Calvin.....	York
A. B. 1907, Drury College; A. M. 1912, The University of Nebraska,	
American History	
Gail, Floyd Whitney.....	Lincoln
A. B. 1911, A. M. 1912, The University of Nebraska	
Botany, Geography	
Gilmore, Melvin Randolph.....	Bethany
A. B. 1904, Cotner University; A. M. 1909, The University of Nebraska	
Botany, Geography	
Hanthorne, Lyman Leigh.....	Normal
A. B. 1911, A. M. 1912, Nebraska Wesleyan University	
Philosophy, Political Science and Sociology	
Hargett, Anderson J.....	Lincoln
A. B. 1897, A. M. 1905, Kentucky University	
Mathematics, Civil Engineering, Astronomy	
Hawes, Annie.....	Lincoln
B. L. 1902, Nebraska Wesleyan University; A. M. 1912, The University of Nebraska	
Political Science and Sociology, Political Economy	
Howard, Lawrence Riggs.....	Lincoln
A. B. 1898, A. M. 1907, Williams College	
Philosophy, Sociology, English Literature	
Howie, Ethel Lee.....	Lincoln
A. B. 1906, The University of Nebraska	
European History	
Latimer, Homer Barker.....	University Place
A. B. 1907, A. M. 1908, University of Minnesota	
Zoology	
Mantor, Edna Clara.....	Lincoln
A. B. 1909, The University of Nebraska	
Zoology, Physiology	
Mitchell, Claude William.....	Lincoln
A. B. 1910, A. M. 1911, The University of Nebraska	
Zoology, Pharmacology	
Pool, Raymond John.....	Lincoln
A. B. 1907, A. M. 1908, The University of Nebraska	
Botany, Geography	

ROSTER OF STUDENTS

471

Putnam, John Jacob	Lincoln
B. Sc. 1904, University of Denver; A. M. 1906, University of Chicago	
Bacteriology, Chemistry	
Pyrtle, Emma Ruth	Lincoln
A. B. 1904, A. M. 1907, The University of Nebraska	
Education	
Runge, Lulu Lillian	Madison, Wis.
A. B. 1905, A. M. 1909, University of Wisconsin	
Mathematics	
Scott, Robert Douglas	Lincoln
B. Sc. 1904, Kansas State Agricultural College; A. M. 1910,	
The University of Nebraska	
English Language and Literature, Psychology	
Singer, Jacob	Lincoln
A. B. 1907, A. M. 1908, University of Cincinnati	
Philosophy	
Sturdevant, Lazelle Brantly	Lincoln
A. B. 1902, B. Sc. 1903, A. M. 1905, M. D. 1909, The University of Nebraska	
Bacteriology, Zoology	
Swenk, Myron Harmon	Lincoln
A. B. 1907, A. M. 1908, The University of Nebraska	
Botany, Entomology	
Thatcher, Roscoe Wilfred	Pullman, Wash.
B. Sc. 1898, A. M. 1901, The University of Nebraska	
Agricultural Chemistry, Botany	
Williams, Hattie Plum	Lincoln
A. B. 1902, A. M. 1909, The University of Nebraska	
Political Science and Sociology	
Zimmer, John Todd	Lincoln
B. Sc. 1910, A. M. 1911, The University of Nebraska	
Entomology, Zoology	

Candidates for the Degree of Master of Arts

Akin, Bertha Mary	Fairbury
A. B. 1908, The University of Nebraska	
English Literature, Latin	
Andersen, Emma Nathalia	Ames
A. B. 1910, The University of Nebraska	
Botany	
Andrews, George Gordon	College View
A. B. 1912, Union College	
European History	
Armstrong, John Ray	Oakland
A. B. 1909, The University of Nebraska	
American History	
Atherton, Loren George	Madison, S. D.
A. B. 1906, State University of Iowa; M. S. 1908, Christian College	
Zoology	
Atkins, Mary Elizabeth	University Place
A. B. 1912, Nebraska Wesleyan University	
English Literature, Philosophy	
Atkins, Will Everett	Lawrence
B. Sc. 1901, Nebraska Wesleyan University	
Education, Political Science	
Austin, Blanche May	Lincoln
A. B. 1909, The University of Nebraska	
Latin, English Language and Literature	
Bach, Emma Ottilie	Lincoln
Graduate, University of Bern	
Germanics	
Barnebey, Ruby	Cairo
A. B. 1909, The University of Nebraska	
English Language and Literature	

Bates, Ruth Mary	A. B. 1910, The University of Nebraska Botany	Lincoln
Becker, Wesley Charles	A. B. 1912, The University of Nebraska Histology and Embryology	Papillion
Benson, Clement L.	A. B. 1905, Union College English Literature	College View
Berkey, Charles Clinton	A. B. 1910, The University of Nebraska American History	Davenport
Blish, Morris Joslin	B. Sc. 1912, The University of Nebraska Chemistry	Omaha
Blodgett, Rachel Nell	A. B. 1910, The University of Nebraska English Literature, Germanics	Raymond
Boardman, Leland Jaynes	A. B. 1910, Oberlin College Physics, Mathematics	Little Valley, N. Y.
Boehr, John Wesley	A. B. 1910, York College Geography	York
Brokaw, Augustus David	A. B. 1912, Cotner University Philosophy, Political Science and Sociology	Bethany
Buller, Jacob P.	A. B. 1911, The University of Nebraska Germanics	Henderson
Bunten, Glenetta Grace	A. B. 1910, Nebraska Wesleyan University English Literature, Rhetoric	University Place
Burdick, Burton Albert	A. B. 1906, Nebraska Wesleyan University American History, Political Science and Sociology	University Place
Caviness, Anson Lorenzo	Ph. B. 1890, Illinois Wesleyan University Educational Theory and Practice	Fairbury
Caviness, Leon Leslie	A. B. 1906, University of Michigan Germanics, Romance Languages, Sanskrit	College View
Clark, Letta May	A. B. 1905, Nebraska Wesleyan University English Literature, Germanics	University Place
Clausen, Minnie Margarette	A. B. 1911, Nebraska Wesleyan University Education	Albion
Cromwell, Richard Oliver	A. B. 1912, The University of Nebraska Botany	Weeping Water
Crozier, Grace Leal	A. B. 1910, Nebraska Wesleyan University English Language and Literature	Osceola
Currier, Edwin Lovejoy	B. Sc. 1912, The University of Nebraska Farm Management, Agronomy	St. Edward
Davis, Guy Russell	A. B. 1912, The University of Nebraska Animal Husbandry	Lincoln
Dawson, Ralph Ward	B. Sc. 1912, The University of Nebraska Entomology	Lincoln
Day, Elsie	A. B. 1908, Ph. G. 1910, The University of Nebraska Botany, Pharmacology	Lincoln

ROSTER OF STUDENTS

473

Denny, Glaideth Gainevere	Lincoln
A. B. 1908, The University of Nebraska	
Germanics	
Donaldson, James Cook	Lincoln
B. Pe. 1906, B. E. 1910, B. S. 1910, Drake University	
Education, Philosophy	
Drake, Nellie Boyd	Broken Bow
A. B. 1911, The University of Nebraska	
Philosophy	
Dworak, Mayme	Oakdale
A. B. 1909, The University of Nebraska	
Botany	
Eads, Lucile Blanche	Omaha
A. B. 1912, The University of Nebraska	
American History	
Elley, Harold Walter	Madison
B. Sc. 1912, The University of Nebraska	
Chemistry	
Elliott, Mary Elizabeth	Columbus
A. B. 1909, The University of Nebraska	
American History	
Ewing, Halle Laura	Lincoln
M. D. 1899, University of Michigan, A. B. 1911, The University of Nebraska	
Political Science and Sociology	
Faulk, Joseph Richard	Seward
A. B. 1903, The University of Nebraska	
Education, American History, English Literature	
Fulmer, Ellis Ingham	University Place
A. B. 1912, Nebraska Wesleyan University	
Chemistry	
Gaeckler, Maude Hazel	Lincoln
A. B. 1911, The University of Nebraska	
Greek, Latin, Sanskrit	
Gish, Oliver Holmes	Manhattan, Kas.
B. S. 1908, Kansas State Agricultural College	
Physics	
Green, Frank Emerson	Malvern, Ia.
B. Di. 1898, Iowa State Teachers College; A. B. 1911; Tabor College	
American History	
Griffith, Donee	Lincoln
A. B. 1912, The University of Nebraska	
Geography	
Hall, Harry Victor Malan	New Haven, Conn.
A. B. 1912, Pomona College	
Zoology	
Hamilton, Luther Francis	Douglas
A. B. 1912, York College	
Educational Theory and Practice, Geography	
Hannah, Margaret Louise	Tilden
A. B. 1907, The University of Nebraska	
Botany	
Hannan, William Everett	Lincoln
A. B. 1907, The University of Nebraska	
Political Science and Sociology, Political Economy and Commerce	
Harms, Charles Wesley Warren	Columbus
B. Sc. 1912, The University of Nebraska	
Zoology	
Hewitt, Lucy Rockwood	Lincoln
A. B. 1909, The University of Nebraska	
English Language and Literature	
Hinterlong, Anna Laura	Minden
A. B. 1909, The University of Nebraska	
Geology, Geography	
Hofmann, Fred Wenzl	Lincoln
B. Sc. 1910, The University of Nebraska	
Horticulture	

Holmes, Helma Lou	A. B. 1909, The University of Nebraska Mathematics, Philosophy	Tecumseh
Holmes, Rachel Edna	A. B. 1910, The University of Nebraska Botany	Lincoln
Hongas, Lida Emelyn	A. B. 1911, Oskaloosa College Educational Theory and Practice	Lincoln
Howard, Robert Francis	B. Sc. 1908, University of Missouri Horticulture	Lincoln
Hutchinson, Mark Eastwood	A. B. 1910, Ohio Wesleyan University Roman History and Literature	University Place
Inches, Mary Jeanette	B. S. 1892, Tarkio College; Ph. B. 1902, Chicago University English Language and Literature	Sterling Kas.
Irvine, Robert Steele	B. Sc. 1912, The University of Nebraska Zoology	New York City, N. Y.
Jensen, John Christian	B. Sc. 1909, Nebraska Wesleyan University Physics	University Place
Juhl, Andrew Petersen	A. B. 1911, The University of Nebraska Germanics	Marcus, Ia.
Kates, Jennie Mae	A. B. 1910, The University of Nebraska European History	Lincoln
Keegan, John Jay	B. Sc. 1912, The University of Nebraska Anatomy	Lincoln
Kirk, William	A. B. 1912, Tarkio College Chemistry	Tarkio, Mo.
Kleihauer, Cleveland	A. B. 1907, Cotner University Philosophy, Sociology	Bethany
Kramer, Bertha Nathalia	B. Sc. 1911, The University of Nebraska Botany	Aurora
Lackey, Earl Emmet	A. B. 1911, The University of Nebraska Geography	Wayne
Lapp, Dale	A. B. 1910, The University of Nebraska Botany, Philosophy	Nelson
Lee, Charles Bopes	B. S. 1909, University of Illinois Animal Husbandry	Lincoln
Lee, Jessie Alice	A. B. 1910, The University of Nebraska Botany	Lincoln
Lewis, Garland Edison	B. Sc. 1909, Grand Island College Chemistry	Anselmo
Lewis, Leland Judson	B. Sc. 1909, Grand Island College Chemistry	Anselmo
Longman, Edward Harvey	A. B. 1908, Cotner University Philosophy, Education	Bethany
* Longman, Effie May	A. B. 1910, The University of Nebraska English Language and Literature, Rhetoric	Lincoln

ROSTER OF STUDENTS

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Loveland, Edward Hildreth	B. Sc. 1910, Dartmouth College Dairy Husbandry	Lincoln
Lowe, Jessie Opal	A. B. 1908, Boston University English Language and Literature	Fairmont
Luckey, George Paul	A. B. 1910, The University of Nebraska Physics	Lincoln
Luckey, Henry Carl	A. B. 1911, LL. B. 1912, The University of Nebraska. Political Science and Sociology	Lincoln
Lynman, Blanche Margaret	A. B. 1912, The University of Nebraska American History	Lincoln.
Mandlin, Mina May	A. B. 1902, State University of Iowa Latin, English Language and Literature	Ladora, Ia.
Miles, Frank C.	A. B. 1912, The University of Nebraska Horticulture	Lynch
Miller, Nellie Gilbert	A. B. 1907, The University of Nebraska Physiology	Lincoln
Mitchell, Helene Schwab	A. B. 1911, The University of Nebraska Rhetoric	Lincoln
Monroe, Ernest Franklin	LL. B. 1904, A. B. 1907, The University of Nebraska Educational Psychology, Sociology	Shelton
Moomaw, Leon Austin	A. B. 1911, Cotner University American History, Political Science and Sociology	Bayard
Moore, Calvin Turner	B. Sc. 1911, The University of Nebraska Geology	Lincoln
Moore, Samuel W.	B. S. 1908, University of Arkansas Political Science and Sociology	Hiawatha, Kas.
Moseley, Thomas Wesley	B. Sc. 1912, The University of Nebraska Agricultural Botany	Lincoln
Moser, Reuben Allyn	A. B. 1910, The University of Nebraska Bacteriology	Omaha
Mottinger, Charles Wesley	A. B. 1910, The University of Nebraska Political Science	University Place
Myers, Fay Nellie	A. B. 1909, The University of Nebraska Latin, English Literature	University Place
Newton, Adah Lillian	A. B. 1910, Doane College English Language and Literature	Inavale
Noll, William Clarence	A. B. 1911, York College Zoology	McCool Junction
Noyes, Bessie	A. B. 1911, The University of Nebraska Botany	Lincoln
Parmelee, Alfred Edwin	B. Sc. 1912, The University of Nebraska Chemistry	Lincoln
Persinger, Mary Endora	A. B. 1910, The University of Nebraska Germanics	Lincoln

Pierce, Orville Hugh	Lincoln
A. B. 1912, The University of Nebraska	
Geology	
Plybon, Walter	University Place
B. Sc. 1908, Nebraska Wesleyan University	
Education	
Puffer, Lewis Morgan	Lincoln
Ph. B. 1898, Hamlin University	
Chemistry	
Ratchliff, John Anderson	Lincoln
B. Sc. 1912, The University of Nebraska	
Experimental Agronomy	
Reed, Albert Alison	Lincoln
A. B. 1898, The University of Nebraska	
Education, English Literature	
Reed, Isa Dolores	Lincoln
A. B. 1911, The University of Nebraska	
Germanics	
Remp, Martin	Hastings
A. B. 1904, University of Wooster	
Educational Theory and Practice, Political Science and Sociology	
Scarborough, Ray James	University Place
A. B. 1909, The University of Nebraska	
Geography	
Schulte, Mary Anna	Lincoln
A. B. 1911, The University of Nebraska	
Botany	
Schulte, Regina Bernardine	Lincoln
A. B. 1911, The University of Nebraska	
Germanics	
Scriven, Dee Matthias	Lincoln
A. B. 1913, The University of Nebraska	
Agronomy	
Sealey, Henry Jeptha	Lincoln
B. D. 1907, B. B. L. 1908, Atlanta Theological Seminary	
Philosophy	
Smith, Edwin Erwin	Talmage
A. B. 1907, Cotner University	
Botany, Zoology	
Smith, Nellie Rosella	College View
A. B. 1911, Union College	
English Literature	
Spease, Perry Martin	Laurel
A. B. 1909, The University of Nebraska	
English Language and Literature, American History	
Sprouse, Albert David	Lincoln
A. B. 1909, Greenville College	
Educational Theory and Practice, Philosophy, Sociology	
Stephens, William Logan	Long Beach, Cal.
A. B. 1899, The University of Nebraska	
Education	
Sterrett, Walter Brooks	Lincoln
A. B. 1895, A. M. 1897, Washington and Jefferson College	
Political Science, Educational Theory	
Stoner, Walter Welles	York
A. B. 1893, Otterbein University	
Education	
Sullivan, Jean	Broken Bow
A. B. 1908, The University of Nebraska	
Political Science and Sociology	
Talbot, John Edgar	Fairfield
A. B. 1910, Nebraska Wesleyan University	
Education	
Teach, Charles Elden	University Place
A. B. 1903, The University of Nebraska	
American History, Political Science and Sociology	

ROSTER OF STUDENTS

477

Thiel, Leo Francis	College View
A. B. 1911, Union College	
English Language and Literature	
Thomas, James Lloyd	Lincoln
B. Sc. 1909, The University of Nebraska	
Agronomy	
Thompson, Harry Landis	West Point
B. Sc. 1912, The University of Nebraska	
Pharmacy	
Tobiska, Joseph William	Wilber
B. Sc. 1912, The University of Nebraska	
Chemistry	
Van Middlesworth, Edith Adella	Peru
A. B. 1908, Nebraska Wesleyan University	
Geography, American History, Education	
Walker, Florence	University Place
A. B. 1911, Nebraska Wesleyan University	
American History, Political Science and Sociology	
Warwick, Charles William	Lincoln
A. B. 1911, Nebraska Wesleyan University	
American History, Political Science and Sociology	
Weatherwax, James Lloyd	Akron, Ohio
A. B. 1912, Oberlin College	
Physics	
Whaley, Frances Alice	Lincoln
A. B. 1912, The University of Nebraska	
Chemistry	
Wickland, Arthur Julius	Lincoln
A. B. 1911, The University of Nebraska	
English Language and Literature	
Wilhelmson, Emma	St. Paul
A. B. 1902, The University of Nebraska	
Education, Educational Psychology	
Williams, Edith Blanche	Lincoln
A. B. 1913, The University of Nebraska	
European History	
Wilson, Clara Owsley	Burwell
A. B. 1912, The University of Nebraska	
Education	
Wittmann, Elisabeth Marie	Lincoln
A. B. 1911, The University of Nebraska	
Germanics, English Language	
Wolf, Albert Emil	Lincoln
A. B. 1907, The University of Nebraska	
Political Science and Sociology	
Wort, Julia Minot	Lincoln
A. B. 1897, The University of Nebraska	
European History	
Worthley, Evans Alvah	Lincoln
A. B. 1908, Nebraska Wesleyan University	
Political Science and Sociology	
Young, Horace James	North Bend
B. Sc. 1911, The University of Nebraska	
Agronomy, Economic Geology	

Candidates for the Degree of Master of Forestry

Bodley, Ralph Ewart	Wahoo
B. Sc. 1912, The University of Nebraska	
Forestry, Botany	
Fullaway, Samuel Vanstone, Jr.	Omaha
B. Sc. 1912, The University of Nebraska	
Forestry, Botany	
Guthrie, Richard Terrell	Lincoln
B. Sc. 1912, The University of Nebraska	
Forestry, Botany	

Korstian, Clarence Ferdinand	Crete
B. Sc. 1911, The University of Nebraska	
Forestry, Botany	
White, David George	Plattsmouth
B. Sc. 1911, The University of Nebraska	
Forestry, Botany	
Wohlenberg, Ernst Theodore Frederick	Lincoln
B. Sc. 1912, The University of Nebraska	
Forestry, Botany	

Candidate for the Degree of Master of Science in Civil Engineering

Nichols, Charles Leslie	Lincoln
B. S. 1907, Franklin College	
Civil Engineering	

Candidate for the Degree of Master of Science in Mechanical Engineering

Wiggins, Edward Ruger	Orfordville, Wis.
B. Sc. 1908, University of Wisconsin	

Graduate Students Without Reference to a Degree

Anderbery, Matilda Christene	Wakefield
A. B. 1911, The University of Nebraska	
Barber, Bert M.	Lewellen
B. Sc. 1912, The University of Nebraska	
Barber, J. Margaret Kyle	Lincoln
Ph. B. 1899, Grinnell College; A. B. 1912, The University of Nebraska	
Barton, Beth Pearl	Lincoln
A. B. 1911, The University of Nebraska	
Beekly, Lulu Fay	Lincoln
A. B. 1910, The University of Nebraska	
Blackstone, George Blanchard	Craig
B. Sc. 1912, The University of Nebraska	
Bliss, Ethel McKinley	Lincoln
B. S. 1905, Iowa State College	
Booth, Ethel Louise	University Place
A. B. 1910, Nebraska Wesleyan University	
Brady, Lydia Mary	University Place
A. B. 1911, University of Oklahoma	
Breese, Mabelle Olive	Lincoln
A. B. 1912, The University of Nebraska	
Buck, Caroline Edna	Lincoln
A. B. 1908, Ohio Wesleyan University	
Bullock, Theodore Tunison	Lincoln
A. B. 1911, The University of Nebraska	
Burch, Lottie	University Place
A. B. 1911, University of Utah	
Burrage, Dwight Grafton	Crete
A. B. 1897, A. M. 1890, Amherst College	
Burt, Barbara	Chicago, Ill.
A. B. 1900, The University of Nebraska	
Butler, Florence	Lincoln
A. B. 1909, The University of Nebraska	
Cannell, Ellen Elizabeth	Lincoln
A. B. 1910, The University of Nebraska	
Clark, Grace Maria	Lincoln
A. B. 1907, The University of Nebraska	
Cole, Frank Trimmer	Lincoln
C. E. 1909, Ohio Northern University; A. M. 1912,	
The University of Nebraska	
Cowan, Edward Karl	Crete
A. B. 1912, Oberlin College	

ROSTER OF STUDENTS

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Cowen, Charles Edward	Clay Center
	B. S. 1910, Drake University	
Creekpaum, Charles Cloyd	Lincoln
	A. B. 1912, The University of Nebraska	
Dalton, Laura Irene	.....	Lincoln
	B. Sc. 1911, The University of Nebraska	
Davis, Florence Emma	.....	Lincoln
	A. B. 1911, The University of Nebraska	
Drake, Fannie Adrienne	.....	Broken Bow
	A. B. 1906, The University of Nebraska	
Duras, Josephine Lucia	.....	Lincoln
	A. B. 1904, The University of Nebraska	
Field, Edith Caroline	.....	Lincoln
	A. B. 1906, The University of Nebraska	
Filley, Horace Clyde	.....	Beatrice
	A. B. 1903, A. M. 1911, The University of Nebraska	
Flake, William Edward	.....	Bellwood
	B. Sc. 1909, The University of Nebraska	
Getty, Robert Ellsworth	.....	Waco
	B. Sc. 1913, The University of Nebraska	
Graham, Robert Hamel	.....	Lincoln
	A. B. 1897, The University of Nebraska	
Grunman, Anne Sophia	.....	Omaha
	A. B. 1908, Vassar College	
Hanford, Ruth Louise	.....	Lincoln
	A. B. 1910, Doane College	
Hanley, Frederick Reinig	.....	Lincoln
	A. B. 1912, The University of Nebraska	
Hanthorn, Emma Evelyn	.....	Lincoln
	A. B. 1912, The University of Nebraska	
Hathaway, Henry Cook	.....	Lincoln
	A. B. 1911, The University of Nebraska	
Hopper, Phoebe May	.....	University Place
	A. B. 1896, A. M. 1901, The University of Nebraska	
Horton, Harvey Amos	.....	McPherson, Kans.
	A. B. 1903, McPherson College	
Hunter, Myrtle Elizabeth	.....	Lebanon
	Ph. B. 1909, Bellevue College	
Ingalsbe, Grace	.....	Inland
	B. Sc. 1901, Hastings College	
Jackson, Mary Frances	.....	Lincoln
	B. Sc. 1898, The University of Nebraska	
Kenagy, Harry Hayes	.....	Milford
	B. Sc. 1896, Doane College	
Kirker, Stella Blaine	.....	Lincoln
	B. L. 1892, A. M. 1895, The University of Nebraska	
Lord, Carl Jacobs	.....	Randolph
	A. B. 1911, The University of Nebraska	
McAfee, Florence Ethel	.....	University Place
	A. B. 1911, Nebraska Wesleyan University	
McGee, Randall R.	.....	Syracuse
	A. B. 1911, The University of Nebraska	
McLean, Earl	.....	University Place
	A. B. 1911, The University of Nebraska	
Melick, Marian Maud	.....	Bethany
	A. B. 1906, The University of Nebraska	
Miller, Eleanora Tibbets	.....	Lincoln
	A. B. 1900, A. M. 1902, The University of Nebraska	
Miller, Sylvia Alice	.....	Tobias
	Ph. B. 1910, University of Chicago	
Morrison, Estelle Rees	.....	Lincoln
	A. B. 1910, A. M. 1912, The University of Nebraska	
Moyer, Mae Elnora	.....	University Place
	A. B. 1911, Nebraska Wesleyan University	
Mueller, Henry Frederick	.....	Sterling
	A. B. 1904, Matthias Claudius College	

Munger, Ruth	Lincoln
A. B. 1912, The University of Nebraska	
Myers, Eda Bernice	Lincoln
A. B. 1907, The University of Nebraska	
Nelson, Golda Bessie	Shenandoah, Ia
A. B. 1910, The University of Nebraska	
Newman, Cora Anna	Lincoln
A. B. 1911, The University of Nebraska	
Nielsen, Henry Peter	Crab Orchard
A. B. 1900, The University of Nebraska	
Nissen, Hanna Marie	Aurora
B. Sc. 1907, Fremont College	
Parminster, Hugh Ernest	Bethany
A. B. 1911, Cotner University	
Phillips, Eva Fern	Beatrice
A. B. 1911, Bellevue College	
Pollock, Laura Mary	Lincoln
A. B. 1900, The University of Nebraska	
Poska, Rebecca Ruth	Lincoln
A. B. 1911, The University of Nebraska	
Pratt, Edna Crete	Lincoln
A. B. 1909, University of Montana	
Range, Bertha Emma	Lincoln
A. B. 1912, The University of Nebraska	
Reed, Guy Euclid	Lincoln
A. B. 1911, The University of Nebraska	
Reinsch, Frank Herman	Lincoln
A. B. 1909, A. M. 1912, The University of Nebraska	
Rogers, David Miles	Randolph
A. B. 1912, The University of Nebraska	
Schmidt, Nelda A.	Lincoln
A. B. 1911, The University of Nebraska	
Shaw, Arthur Le Grand	Benton Harbor, Mich.
B. Sc. 1894, Olivet College	
Skinner, Mary Elizabeth	Lincoln
A. B. 1910, The University of Nebraska	
Smith, Jay L.	Council Bluffs, Ia.
Ph. B. 1895, Grinnell College	
Sowell, James William	Omaha
A. B. 1900, A. M. 1903, Gallaudet College	
Sprague, Annie Maxon	Lincoln
A. B. 1911, The University of Nebraska	
Stewart, Charles Oran	McCool Junction
A. B. 1907, The University of Nebraska; A. M. 1908, University of Missouri	
Stewart, Elvessa Anne	Fremont
A. B. 1912, The University of Nebraska	
Strickland, Bivan Lewis	Tecumseh
A. B. 1906, The University of Nebraska	
Stuff, Frederick Ames	Lincoln
A. B. 1893, Nebraska Wesleyan University; A. M. 1900, The University of Nebraska; Litt. D. 1911, Nebraska Wesleyan University	
Swan, Ralph Emerson	Clinton, Mo.
A. B. 1912, Nebraska Wesleyan University	
Taylor, Lola Montez	College View
A. B. 1898, Battle Creek College	
Theobald, Carl Van Winkle	Hastings
B. Sc. 1911, Hastings College	
Thomas, Gladys Elizabeth	Lincoln
A. B. 1912, The University of Nebraska	
Trout, Linneaus Robert	DeWitt
B. Sc. 1909, York College	
Wade, Nina Harris	Lincoln
A. B. 1897, Lombard College	
Walker, Earl Fiske	University Place
A. B. 1909, Nebraska Wesleyan University; Ph. G. 1912, The University of Nebraska	

ROSTER OF STUDENTS

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Weaver, John Ernst	Lincoln
B. Sc. 1909, A. M. 1911, The University of Nebraska	
Wiese, Otto	Lincoln
B. Sc. 1911, University of Wisconsin; A. M. 1912, The University of Nebraska	
Wilke, Charlotte	Lincoln
A. B. 1910, The University of Nebraska	
Yont, Lily	Lincoln
A. B. 1907, The University of Nebraska	
Yont, Rose	Lincoln
A. B. 1903, A. M. 1907, The University of Nebraska	
Zimmer, Mary Virginia	Lincoln
A. B. 1909, The University of Nebraska	

1912-1913

ROSTER OF STUDENTS IN THE COLLEGES*

Standing granted on the basis of

- (1) Baccalaureate Degree, (2) Thirty "Points" (Complete) or Twenty-eight "Points" (Conditional) entrance to the Freshman Year,
- (3) "Adult Special" registration (At least twenty-one years of age).

Abbreviations

Letters indicate college and figure indicates year.

A—College of Arts and Sciences; CA—College of Agriculture; T—Teachers College; E—College of Engineering; L—College of Law; M—College of Medicine; G—Graduate College; u—Unclassed, or "Adult Special."

Name	College and Year	Home Address
Abbott, Earl Leslie.....	CA 2.....	David City
Abbott, Joyce Haven.....	A 2.....	Grand Island
Aber, Sadie Dunning.....	A 2.....	Sheridan, Wyo.
Ackerman, Arthur William.....	A 1.....	Lincoln
Ackerman, Ruth Lovilla.....	A 2.....	Beatrice
Ackerman, William Prescott.....	A 1.....	Havelock
Adams, Lella White.....	Au, (S).....	Lincoln
Adams, Percy A.....	A 3.....	Lincoln
Agor, Hugh.....	A 3.....	Omaha
Ahrens, Don Earle.....	E 3.....	Sidney
Akin, Bertha Mary.....	G.....	Fairbury
Aksamit, Agnes Rosella.....	A 2, (S).....	Crete
Albee, Myrtle Ann.....	Au.....	Lincoln
Albert, Fred Craig.....	E 2.....	Columbus
Aldrich, George Stroman.....	L 1.....	Lincoln
Aldrich, William Edwin.....	A 1.....	Fairmont
Alexis, Johannes Leonard Crispin.....	Au.....	Lincoln
Alxis, Oscar Ebenezer.....	A 1.....	Lincoln
Allan, Roy Folger.....	A 4, L 1.....	Lincoln
Alldritt, Roscoe Vance.....	Mu.....	Lincoln
Allen, Edith Magee.....	A 1.....	Lincoln
Allen, George Hamilton.....	E 2.....	Lincoln
Allen, George Washington.....	A 3, T 3, (Ex, S).....	Rifle, Colo.
Allen, Hazel Marcia.....	CA 2.....	Lincoln
Allen, Jeanne.....	A 3, T 3.....	Valparaiso
Allen, Leonard Elmer.....	CA 2.....	Tecumseh
Allen, Louis Baker, Jr.....	A 4, L 1.....	Lincoln
Allison, J. Ned.....	A 4, L 1.....	Sterling
Allison, James Everett.....	E 2.....	Hastings
Allyn, Arthur Ernest.....	A 3.....	Hastings
Almquist, Elmer Hugo.....	A 1.....	Wahoo
Almy, Emory Frederick.....	A 1.....	Ashland
Amerman, Ralph Kenneth.....	L 2.....	St. Joseph, Mo.
Ames, Burnham B.....	E 1.....	Normal

* Immediately following this roster appear the names of students registered primarily in a school or in University Extension work. No name appears on more than one roster. For definition of letters in parentheses, see second roster immediately following.

Anderbery, Matilda Christene.....	G, (S).....	Wakefield
Andersen, Einar.....	CA 2.....	Valley
Andersen, Emma Nathalia.....	G.....	Ames
Andersen, Ingvard Marius.....	A 4.....	Superior
Andersen, Nellie Margaret.....	A 1.....	Eaton, Colo.
Anderson, Andrew Emmett.....	A 4, (S).....	Lincoln
Anderson, Andrew Victor.....	E 3.....	Lincoln
Anderson, Arthur.....	CA 1.....	Oxford
Anderson, Charles Elmer.....	Eu.....	Omaha
Anderson, Charles Henry.....	E 2.....	Genoa
Anderson, Edith Marie.....	A 1.....	Lincoln
Anderson, Elmer Le Roy.....	E 3.....	Lincoln
Anderson, Elmer Sigfred.....	CAu.....	Wayne
Anderson, Elmer William.....	E 1.....	Louisville
Anderson, Ernest Gustave.....	CA 2.....	Cccord
Anderson, Esther Sanfreda.....	A 2.....	Lincoln
Anderson, Eva Veronica.....	CA 2.....	Lincoln
Anderson, Geraldine Charlotte.....	CA 1.....	Lincoln
Anderson, Harriette Beatrice.....	A 1.....	St. Paul
Anderson, Kate Magdalena.....	CA 1.....	Lincoln
Anderson, Lee Norman.....	CA 1.....	Lincoln
Anderson, Mabel.....	CAu.....	Wahoo
Anderson, Mae Mildred.....	CA 1.....	Osceola
Anderson, Mamie.....	A 2.....	Shelby
Anderson, Mary Annette.....	A 2, (S).....	Lincoln
Anderson, Mildred Johanna.....	Au, (S).....	Milford
Anderson, Ruby Lydia.....	Au.....	Gothenburg
Anderson, Russell Boyd.....	A 1.....	Seward
Anderson, Verna Ruth.....	A 2.....	Holdrege
Andrews, George Gordon.....	G.....	College View
Andrews, Gertrude Ione.....	CA 1.....	Steele City
Andrews, Mitchell McCauley.....	A 2.....	College View
Andrews, Raleigh K.....	A 3, M 1.....	College View
Angell, Charles James.....	A 1.....	Ulysses
Angle, Florence Bell.....	A 1.....	Lincoln
Anheuser, Julie Marie.....	CA 2.....	Omaha
Ankeny, Harry Ray.....	L 3.....	Tobias
Ankeny, Howard Lee.....	A 1.....	Tobias
Anselmo, Sister Mary.....	A 3, (S).....	Faribault, Minn.
Anstine, Marie Edna.....	Au.....	Tamora
Appel, Ralph Wiley.....	A 1.....	Lincoln
Apperson, Catherine La Master.....	A 3.....	Tecumseh
Archibald, Fred Irwin.....	E 2.....	McCook
Arends, Edna Anna.....	CA 4, T 4.....	Syracuse
Arms, Louis Pliny.....	E 4.....	Omaha
Armstrong, Amy Eleanor.....	A 3, T 3, (Ex).....	Syracuse
Armstrong, Clarence M.....	CA 1.....	Broken Bow
Armstrong, George Jack.....	A 4.....	Omaha
Armstrong, Glen Albert.....	E 2.....	Lincoln
Armstrong, John Ray.....	G, (S).....	Oakland
Armstrong, Pearl Witte.....	A 2.....	Lincoln
Armstrong, Robert McDowell.....	L 3.....	Auburn
Armstrong, Vera Elizabeth.....	CA 3, T 3.....	Lincoln
Arnholt, Milton Frederick.....	M 4.....	Lincoln
Arnold, Aimee Fay.....	A 4, T 4, (S).....	Lincoln
Arnold, Anna Elizabeth.....	A 1, (Ex, S).....	Topeka, Kans.
Arnold, Ethel M.....	Au.....	Johnstown
Arnold, Henry J.....	A 2, (Ex, S).....	Sterling
Arnold, Merle Victor.....	A 4.....	Ola, Ark.
Arnold, Merton O.....	A 2.....	Palmer
Aronson, Harold Abe.....	A 2.....	Fremont
Arries, Major Alexander.....	E 1.....	Plattsmouth
Arterburn, Agnes Arilda.....	A 1.....	Lincoln
Arterburn, Roley Wiley.....	CA 1.....	Lincoln

ROSTER OF STUDENTS

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Asendorf, Bernhardt Herman.....	CA 3.....	Lincoln
Ashby, Fern Lee.....	CA 3, T 3.....	Broken Bow
Ashby, Harry Hardman.....	E 3.....	Lincoln
Ashford, Margaret Geraldine.....	A 2.....	Homer
Ashton, Eva.....	A 1.....	Syracuse
Aten, Bessie.....	A 1, (S).....	Lincoln
Aten, William Banta.....	A 3, M 1, (S).....	Lincoln
Athan, Edith Gertrude.....	A 2.....	Tekamah
Athan, Esther Edna.....	A 2.....	Tekamah
Atherton, Loren George.....	G.....	Madison, S. D.
Atkins, Mary Elizabeth.....	G.....	University Place
Atkins, Will Everett.....	G, (S).....	Lawrence
Atwell, Clarence Allen.....	E 4.....	University Place
Atwood, Catharine Parmelia.....	A 1.....	Lincoln
Aul, William Eugene Adophus.....	G.....	College View
Austin, Blanche May.....	G.....	Lincoln
Austin, Effie Mabel.....	Au.....	Lincoln
Ayres, Verne Uter.....	A 1.....	Beatrice
Ayres, Vivian Martha.....	A 1.....	Lincoln
Babbitt, Eunice.....	Au, (Ex).....	North Platte
Babcock, Fred Lawrence.....	A 2.....	Columbus
Babcock, John Powell.....	E 2.....	Columbus
Babcock, Lodicea Anna.....	A 1.....	Scottsbluff
Babcock, Vale Oressa.....	A 1.....	Lincoln
Bach, Emma Ottilie.....	G.....	Lincoln
Bachoritch, Cecil James.....	A 3.....	Fairbury
Backlund, Francis Victor.....	CA 1.....	Stromsburg
Bacon, Jane.....	CA 1.....	Pender
Baer, Alva Aldus.....	A 4, (S).....	Lincoln
Bailey, Charles Henry.....	E 1.....	Wymore
Bailey, Veda Aseinitz.....	CA 1.....	Lincoln
Baird, Florence Isabelle.....	A 1.....	Lincoln
Baird, John Elmer.....	E 3.....	Lincoln
Baker, Earl Elias.....	A 3, M 1.....	Havelock
Baker, Irving Clinton.....	E 1.....	Lincoln
Baker, Susie Helen.....	A 3.....	Lincoln
Ballman, Richard Eugene.....	CA 1.....	Omaha
Balis, Arthur.....	A 1.....	Waverly
Ball, George Washington.....	A 1.....	David City
Pall, Norris Clifford.....	CA 2.....	Genoa
Ballah, Arthur Blaine.....	A 3, L 1.....	Norfolk
Ballard, Grace.....	Lu.....	Blair
Ballard, Josephine.....	A 1.....	Fort Morgan, Colo.
Pallard, Joyce Honora.....	A 1, (THS).....	Lincoln
Bantin, Elmer William.....	A 1.....	Omaha
Barber, Bert M.....	G.....	Lewellen
Barber, J. Margaret Kyle.....	G, A 4, (S).....	Lincoln
Barger, Ada Ethel.....	A 1, (S).....	Lincoln
Barger, Letha Emma.....	Au.....	Benkelman
Barnebey, Ruby.....	G, (S).....	Cairo
Barnes, Glenn Hambel.....	A 2.....	Fairbury
Barns, Donald Grove.....	A 2.....	Albion
Barnum, Earl.....	Mu.....	Aurora
Barry, Augustus Charles.....	M 2.....	Maywood
Barry, John Patrick.....	Mu.....	Wahoo
Barstow, Adrian Foote.....	L 1.....	Lincoln
Bartl, Arbor Francis Frederick William.....	A 4, (Ex, S).....	Lincoln
Bartlett, Agness Pauline.....	A 2.....	Lincoln
Barton, Beth Pearl.....	G.....	Lincoln
Barton, Clyde Turner.....	L 1.....	Pawnee City
Bascom, Vernon.....	L 2.....	Lincoln
Baskins, Conrad Leslie.....	L 3.....	North Platte
Bastron, Carl Henry.....	A 3, M 1, (S).....	Lincoln
Basye, George Lee.....	L 2.....	Alliance

Bates, Bessie Sarah.....	CA 3.....	Lincoln
Bates, Cleo Walter.....	A 2.....	Verdigris
Bates, Ford E.....	E 3.....	Springfield
Bath, Mabel Adeline.....	A 2.....	Auburn
Bates, Ruth Mary.....	G.....	Lincoln
Bauer, Gertrude Elizabeth.....	A 1.....	Lincoln
Bauman, William Harry.....	E 2.....	Omaha
Bayles, Ella Olive.....	A 2, (S).....	Seward
Bayles, Lucy Merrill.....	A 2, (FA, Ex, S).....	Seward
Bayley, Bessie Lillian.....	A 1.....	Gibbon
Beach, John Roy.....	A 4.....	Lincoln
Beachley, John Hiram.....	L 2.....	Lincoln
Beal, Margaret Irene.....	CA 1.....	Red Cloud
Beams, David K.....	CA 1.....	Lincoln
Beard, John Cleveland.....	A 2.....	Lincoln
Beardsley, Abbie Emma.....	Au. (S).....	Lincoln
Beaumont, Evelyn Nash.....	A 2.....	Lincoln
Beaumont, Gladys Norton.....	CA 2.....	Lincoln
Beaver, Chester Adam.....	A 4, T 4. (THS).....	Lincoln
Bechter, Leo Allen.....	A 4.....	Pierce
Beck, Benjamin Harlow.....	A 2.....	University Place
Beck, Charles Gordon.....	CA 3.....	Peru
Beck, Charles Wesley.....	E 3.....	Edgar
Beck, Gerald Henderson.....	A 1.....	Gibbon
Beck, Iva Leota.....	Au.....	Lincoln
Becker, Wesley Charles.....	G.....	Papillion
Beckhoff, Alexander Henry.....	CA 4.....	Thedford
Beckman, Alfred William Charles.....	A 4, (S).....	Lincoln
Redwell, Louise.....	A 2.....	Omaha
Beech, Joseph Earl.....	A 1.....	Meadow Grove
Beede, Clark Eli.....	A 1.....	David City
Beekly, Albert Leon.....	A 4.....	Lincoln
Beekley, Lulu Fay.....	G. (S, As).....	Lincoln
Beesley, Marguerite.....	A 1.....	Erieon
Begley, Daniel Frank.....	A 1, L 1.....	Springfield
Bell, Frances Irene.....	A 1.....	Omaha
Bell, Lucile.....	CA 4, T 4.....	York
Beltzer, Oren A.....	L 2.....	Arapahoe
Bender, Estella May.....	A 4, T 4.....	Lincoln
Benetta, Sister Mary.....	A 4, T 4. (S).....	Jackson
Benjamin, Ada Julia.....	A 1.....	Arapahoe
Benner, Henry John.....	E 1.....	Scribner
Bennett, Esther Louise.....	CA 2.....	Lincoln
Benson, Clement L.....	G.....	College View
Benson, Edward Newman.....	A 1, (THS).....	Omaha
Berg, Vernon Spencer.....	A 1.....	Lincoln
Berger, Stuart Albert.....	CA 1.....	South Omaha
Berggren, Mabel Josephine.....	CA 1, (FA).....	Lincoln
Bergman, David Lowell.....	A 2.....	Verona
Bergman, Rose.....	A 1.....	Lincoln
Berkey, Charles Clinton.....	G. (Ex, S).....	Davenport
Berquist, George Martin.....	E 2.....	Loomis
Biba, William August.....	E 2.....	Exeter
Bicknell, Effa Maie.....	A 1.....	Lincoln
Birkner, Gisela Julia.....	A 3.....	Lincoln
Birmingham, Hugh John.....	A 4.....	O'Neill
Bishman, Clara Emma.....	Au.....	Waseca, Minn.
Bishop, Harland Dale.....	E 4.....	Superior
Bittinger, Howard.....	E 1.....	Omaha
Bixby, Alice Lorena.....	A 3.....	Lincoln
Black, Marjorie.....	A 1.....	Lincoln
Blackman, Marjorie Hart.....	A 4, T 4.....	Hastings
Blackstone, Elmer O.....	A 2, (S).....	Pilger
Blackstone, George Blanchard.....	G, (S).....	Craig

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Blanchard, La Fayette Randall.....	A 3.....	Lincoln
Blandin, Alma Claire.....	A 3, T 3.....	Western
Blish, Helen May.....	A 2.....	Omaha
Blish, Morris Joslin.....	G.....	Omaha
Bliss, Ethel McKinley.....	G.....	Lincoln
Bliss, Mabel Ford.....	A 1, (S).....	Bertrand
Blodgett, Rachel Nell.....	G, (S).....	Raymond
Bloedorn, Howard Benjamin.....	A 1.....	Council Bluffs, Ia.
Blomenkamp, Alvina Marie.....	A 2.....	Hastings
Blomenkamp, August Ernest Henry.....	A 4, M 2.....	Lincoln
Blomenkamp, Ida Florence.....	A 2.....	Hastings
Blythe, Eugene Stanley.....	Au.....	Diller
Boardman, Leland Jaynes.....	G.....	Little Valley, N. Y.
Bock, Fred Arthur.....	E 1.....	Omaha
Bocken, Frank Edward.....	A 2.....	Lincoln
Bodley, Ralph Ewart.....	G.....	Wahoo
Boehmer, Rupert August.....	Lu.....	Lincoln
Boehr, John Wesley.....	G, (S).....	York
Boggs, James Howard.....	CA 3.....	Lincoln
Boggs, James William.....	CA 1, (THS).....	Lincoln
Bolibaugh, John Solomon.....	E 1.....	Holbrook
Bolibaugh, Oral Bevely.....	A 3, M 2, (Ex).....	Holbrook
Boltin, Annetta Heathman.....	A 4, (Ex).....	Kearney
Bond, Mary Elizabeth.....	A 2, (S).....	Salt Lake City, Utah
Bonnell, Elizabeth.....	Au.....	Lincoln
Bonnell, Fay.....	CAu.....	Lincoln
Bonnell, Valeria.....	A 3, T 3.....	Lincoln
Bonnell, Winifred Blanche.....	Au.....	Lincoln
Bookmeyer, Mary Barbara.....	A 4, T 4, CA 4, (Ex, S).....	Plattsmouth
Booth, Ethel Louise.....	G.....	University Place
Borg, Eleanor Christene.....	Au.....	Concord
Borrowman, George.....	G.....	Lincoln
Borrowman, Hazel Margaret.....	A 1, (S).....	Stillwater, Minn.
Boslaw, Frances Olivia.....	CA 1.....	University Place
Bostrom, Gustaf Alfred.....	CA 2, (S).....	Lincoln
Bouchal, Louis James.....	Au, (Ex, S).....	Wilber
Boukather, John M.....	A 1.....	Lincoln
Bouse, Helen Kathryn.....	A 4.....	David City
Bowen, Bess.....	Au, (S).....	Lincoln
Bowen, John Stevenson.....	CA 1.....	Omaha
Bowen, Willis Stevenson.....	A 1.....	Orchard
Bower, Ernest Harold.....	Au.....	Lincoln
Bowers, Nelson James.....	CA 1.....	Lincoln
Bowman, David Henry.....	A 1.....	Omaha
Boyer, Emile James.....	E 1.....	Gering
Boyle, Wilfrd James.....	A 1.....	O'Neill
Boyles, Flora Rose.....	CA 2, (FA).....	Alvo
Boynton, Robert Slothawer.....	E 4.....	Adams
Brace, Orval Lester.....	CA 2.....	Lincoln
Bradburn, Grace Caroline.....	G, (Ex).....	Broken Bow
Bradbury, Lydia Josephine.....	Au.....	University Place
Brady, Lydia Mary.....	G, (S).....	University Place
Brainard, Willis Nathaniel.....	Lu.....	Normal
Branigan, John.....	CA 2.....	Falls City
Branigan, Marguerite Mary.....	A 3, T 3.....	Norfolk
Bratt, Lourene.....	A 1, (S, FA).....	Lincoln
Brecks, Olga Elfreida.....	A 2.....	Arapahoe
Breen, Leo Joseph.....	A 3, (S).....	South Omaha
Breese, Clarice Lina.....	A 2.....	Lincoln
Breese, Mabelle Olive.....	G.....	Lincoln
Brenn, Joseph Patrick.....	L 3.....	Fairbury
Brethouwer, Berend John.....	G.....	Fairmont
Brewster, Beulah.....	CA 2.....	Beatrice
Brian, Roy Edwin.....	A 1.....	Lincoln

Bridenbaugh, Ruth Margaret.....	A 3, T 3, (S).....	Dakota City
Bridge, Charles Albert.....	A 1.....	Norfolk
Bridges, Mabel Luella.....	Au.....	Sterling
Briggs, Helen.....	CA 2.....	Fremont
Briggs, Lena.....	A 3.....	Kearney
Brigittine, Sister M.....	A 1, (S).....	Jackson
Brisco, Bertha Alice.....	A 1.....	Douglas
Bristol, Louise Bertha.....	A 1.....	Waco
Britt, Dorothy Livingston.....	Au.....	Plattsmouth
Brittain, James Elwyn.....	A 3.....	Wayne
Broadwell, Crosby M.....	E 2.....	South Omaha
Brock, Lucy Elizabeth.....	Au, (S).....	Bethany
Brokaw, Augustus David.....	G.....	Bethany
Brokaw, Eva June.....	A 3, T 3, (S).....	Bethany
Broman, Martin Robert.....	A 3, M 1.....	Lincoln
Brooks, Frances Alice.....	A 1.....	Lincoln
Brooks, Harry Glenn.....	E 1.....	Lincoln
Brooks, James Forrest.....	CA 1.....	Lincoln
Brother, George Howard.....	A 4.....	Beatrice
Brown, Arthur Carroll.....	CA 1.....	Scribner
Brown, Charles Neil.....	A 3.....	Lincoln
Brown, Charles Rufus.....	E 2.....	Lincoln
Brown, Cora Maude.....	A 4.....	Sterling
Brown, Edith Marion.....	A 1.....	Sargent
Brown, Edna May.....	A 3.....	Lincoln
Brown, Gilbert Silas.....	Lu.....	Lincoln
Brown, Harley Franklin.....	A 1.....	Lincoln
Brown, Irene.....	CA 2.....	Fremont
Brown, Jennie Broughton.....	Au.....	Lincoln
Brown, Joseph Edwin.....	E 3.....	Rushville
Brown, Louis Clark.....	E 1.....	Fremont
Brown, Odes Franklin.....	E 1.....	Chester
Brown, Olive Gladys.....	Au.....	Lincoln
Brown, Ralph.....	CAu, (S).....	College View
Brown, Royal Allen.....	Au, (S, Ex).....	Hitchcock, Okla.
Brown, Ruth Bunnie.....	Au.....	Rushville
Browne, Jesse Paul.....	A 1, (4 yr. Pharmacy).....	Benkelman
Brownell, Louise Barker.....	A 1.....	Lincoln
Brownell, Ruth Miller.....	A 3, (S).....	Lincoln
Brunner, Helen Marcia.....	A 4.....	Lincoln
Brunke, August Frederick.....	E 1.....	Sterling
Bryan, Silas Millard.....	A 2.....	Lincoln
Buchanan, Charles Coe.....	L 3.....	Porterville, Calif.
Bucher, Ella Columbia.....	A 1.....	Columbus
Bucher, Martha.....	CA 2.....	Columbus
Buck, Caroline Edna.....	G.....	Lincoln
Buck, Dorothy Vincent.....	A 1, (Ex).....	Superior
Buck, Miriam Patterson.....	A 3, T 3.....	Superior
Buckles, Emil Leumas Joseph.....	Au, (Ex, S).....	Havelock
Buddenberg, Rahl Stanley.....	E 3.....	Lincoln
Buerstetta, Blanche.....	Au.....	Lincoln
Buerstetta, Orville Andrew.....	A 1.....	Lincoln
Buffington, Florence Fern.....	A 2, (S).....	Fremont
Buis, Albertus Henry.....	A 1.....	Hickman
Buller, Jacob P.....	G.....	Henderson
Bullock, Theodore Tunison.....	G.....	Lincoln
Bunt, Gladys Priscilla.....	CA 3, T 3.....	Fremont
Bunten, Glenetta Grace.....	G, A 4.....	University Place
Bunting, Herbert Robins.....	E 3.....	Lincoln
Buol, Kate Anna.....	Au.....	Randolph
Buol, Paul Albert.....	E 3.....	Randolph
Burch, Lottie.....	G.....	University Place
Burch, Ruth Amy.....	CA 1.....	Lander, Wyo.
Burdick, Burton Albert.....	G, (S).....	University Place

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Burke, Everett Hall.....	A 1.....	Omaha
Burke, Margharetta.....	A 1.....	Omaha
Burkett, Josephine Sarah.....	Au.....	Lincoln
Burman, Guy Elmer.....	A 3.....	Axtell
Burn, Robert Raymond.....	CA 4.....	St. Edward
Burnett, Bessie.....	A 3, (S).....	Lincoln
Burnett, Jerome Benjamin.....	A 1.....	Lincoln
Burns, Hazel Flavia.....	A 2.....	Lincoln
Burns, Hiram Delaney.....	M 3.....	Omaha
Burr, Edwin Marcellus.....	A 1.....	Aurora
Burr, George Lawrence.....	A 2.....	Aurora
Burr, Maurice Elbert.....	E 2.....	Lincoln
Burridge, Dwight Grafton.....	G, (S).....	Crete
Burrows, Florence Lucile.....	A 2.....	Lincoln
Burrows, Margaret.....	Au.....	Lincoln
Burt, Barbara.....	G.....	Chicago, Ill.
Burtis, Harry James.....	A 4, T 4.....	Lincoln
Bush, Gladys.....	A 1.....	Lincoln
Bushnell, Edna Valentine.....	A 1.....	Piemont
Bushnell, Herbert Martin.....	L 2.....	Lincoln
Butler, Bessie A.....	A 1, (S).....	Beaver City
Butler, Florence.....	G.....	Lincoln
Butler, Fred E.....	Au.....	Lincoln
Butler, Helen Condon.....	A 3.....	Lincoln
Butler, Mildred Harriet.....	A 3.....	Superior
Butz, Fred T.....	Mu, (THS).....	Talmage
Buzzell, Dow Alan.....	E 1.....	Pirih
Byers, Vera Mabel.....	Au.....	Lincoln
Byrnes, John Sheridan.....	L 1.....	Lincoln
Byron, Myrtle Edna.....	A 1.....	Gothenburg
Cady, Richey Earl.....	Au, (Ex, S).....	Laurel
Cain, Jean Benson.....	L 3.....	Falls City
Caldwell, Frances Emily.....	A 1.....	Lincoln
Calundann, Alfred Erwin.....	Eu.....	Osmond
Calver, Ben H.....	E 2, (S).....	Ainsworth
Cameron, Anna Margharetta.....	A 2.....	Burwell
Cameron, Mary Helen.....	A 4, T 4.....	Lincoln
Cameron, Robert Fairrie.....	E 1.....	Lincoln
Camp, Mary Eunice.....	A 1.....	Lincoln
Camp, Ray Herbert.....	CA 4, (Ex, S).....	Benson
Campbell, Frank Clark.....	E 3.....	Milestone, Sask., Canada
Campbell, Harold Ray.....	CA 1.....	Osceola
Campbell, Juanita Lucille.....	A 1.....	Lincoln
Canaday, Ralph Oliver.....	A 2.....	Minden
Candy, Charles Mitchell.....	E 4.....	Lincoln
Cannell, Ellen Elizabeth.....	G, (S).....	Lincoln
Cannell, Jennie.....	Au, (S).....	Lincoln
Cannell, John Leo.....	A 1, (THS).....	Lincoln
Cannell, Katherine.....	A 4, (S).....	Lincoln
Cannell, Paul John.....	E 3.....	Lincoln
Capwell, Joseph Alfred.....	L 2.....	Dell Rapids, S. D.
Carey, Raymond Burdette.....	A 1, (S).....	University Place
Carlson, Frank Emanuel.....	A 3.....	Lincoln
Carlson, Homer Lionel.....	E 1.....	Omaha
Carlson, Rachel Althea.....	A 1.....	Oakland
Carns, Dorothy Jane.....	A 1.....	Lincoln
Carns, Helen Mitchell.....	A 4.....	Lincoln
Carpenter, Blanche Etta.....	A 3, T 3, (S).....	Lincoln
Carr, Allen Earl.....	A 2.....	Lincoln
Carr, Ivan Nickell.....	M 1.....	Lincoln
Carrier, Samuel Crowe.....	E 4.....	Omaha
Carroll, Lavinia Ruth.....	A 2, CA 2, (S).....	Lincoln
Carse, Earle Russell.....	A 4, L 1.....	Omaha
Carson, Ellsworth Ralph.....	E 1.....	Ord

Carson, Norma Vere.....	A 2.....	Lincoln
Carsten, Alma Agnes.....	A 4.....	Albion
Carter, George Neal.....	E 4.....	Fullerton
Casper, Robert William.....	Mu.....	Primrose
Castile, Pearl Ida.....	A 1, (S).....	Stromsburg
Cather, John Esten.....	E 1.....	Red Cloud
Cathey, Cameron A.....	E 2.....	Weeping Water
Cavanagh, Cornelius Constance.....	A 4, (Ex).....	Jackson
Cavett, Yale Hatch.....	A 1.....	Phillips
Caviness, Anson Lorenzo.....	G, (S).....	Fairbury
Caviness, Leon Leslie.....	G.....	College View
Chalfant, Fay Irene.....	Au, (S).....	Missouri Valley, Ia.
Chamberlain, Lorenzo Warner.....	Au, Ia.....	Lincoln
Chamberlin, Samuel Glenn.....	CA 3.....	Beatrice
Chamberlin, William.....	L 1.....	University Place
Chambers, Frank Ernest.....	L 2.....	West Point
Chandler, Emeline Lucinda.....	Au, (S).....	Kansas City, Mo.
Chapin, Eunice Spalding.....	A 2.....	Lincoln
Chapin, Harriet Cudaback.....	Au.....	Lincoln
Chapin, Lillian Farnum.....	Au.....	Lincoln
Chapin, Mary Leonard.....	A 3.....	Lincoln
Chapin, William Calvin.....	E 1.....	Lincoln
Chapline, William Kidgely, Jr.....	CA 4.....	Lincoln
Chapman, Lawrence.....	Lu.....	O'Neill
Chapman, Lewis Carl.....	A 2.....	Tecumseh
Chappell, Ellen Avis.....	A 1, (S).....	Osmond
Chappell, Elwood Blake.....	A 3.....	Osmond
Chappell, James Robinson.....	E 1.....	Minden
Charlesworth, Lloyd Warren.....	L 2.....	Omaha
Charlton, Duncan Downing.....	A 1.....	Loup City
Chase, Floyd Josiah.....	CA 3.....	Pawnee City
Chatburn, Mary Frances.....	A 4.....	Lincoln
Cherny, Millie.....	A 4, T 4.....	North Bend
Chowins, Harold Stanley.....	E 3.....	Lincoln
Chrestensen, Fern.....	A 1.....	Lincoln
Chrisman, Alta Lucile.....	A 1.....	Lincoln
Christian, Daisy Belle.....	A 2.....	Madison
Christie, James Arthur.....	En.....	Omaha
Claar, Charles Edward.....	A 2, (S).....	Petersburg
Clark, Clarence Leon.....	L 2.....	Lincoln
Clark, Della Marie.....	A 2.....	University Place
Clark, Ethel Cecelia.....	Au, (S).....	Lincoln
Clark, Grace Maria.....	G, (S).....	Lincoln
Clark, Hallie Hinkley.....	CA 4.....	University Place
Clark, Hazel Palmer.....	CA 1.....	Omaha
Clark, James Irving.....	L 2.....	St. Edward
Clark, John.....	Au.....	Bethany
Clark, Lawrence Cross.....	CAu, (THS).....	St. Edward
Clark, Letta May.....	G.....	University Place
Clark, Mary Charlotte.....	A 1, (S).....	Jackson
Clark, Marde Spencer.....	A 2, (S).....	Lincoln
Clark, Miriam Anne.....	A 4.....	Kearney
Clark, Ray.....	CA 1.....	Pawnee City
Clark, Russell Franklin.....	A 2.....	South Omaha
Clark, Stuart Kenneth.....	E 2.....	Lincoln
Clarke, Ruth Mable.....	CA 1.....	Omaha
Clausen, Minnie Margarette.....	G, (S).....	Albion
Claussen, Christina Mary.....	A 3, T 3.....	Beatrice
Clayton, Mabel Stephenson.....	A 1.....	Lincoln
Clayton, Mae Stephenson.....	A 1.....	Lincoln
Cleaver, Vera Genevieve.....	A 4, (S).....	Lincoln
Cleaver, Vivien Beatrice.....	A 3, T 3.....	Lincoln
Cloe, Rhea Lucile.....	Au.....	Lincoln
Cloud, Rowland Newkirk.....	A 1.....	Lincoln

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Cobb, Elliott Cunningham.....	M 4.....	Harlan, Ia.
Cobb, Orvey Grant.....	E 1.....	Funk
Coe, Irma Grace.....	A 2.....	Davis City
Coe, Lulu Mae.....	A 1.....	Omaha
Coffee, Guy Hyman.....	CA 1.....	Chadron
Coffee, Harry Buffington.....	A 4, L 1.....	Chadron
Coffman, Ethel Beulah.....	A 4, (S).....	Lincoln
Cogill, Annie Minnie Theodosia.....	Au, (S).....	Lincoln
Colbert, Fred James.....	A 4, M 1.....	Weeping Water
Cole, Dana Finley.....	A 2.....	Lincoln
Cole, Frank Trimmer.....	G, (S).....	Lincoln
Cole, Paul Nicklin.....	L 3.....	Lincoln
Cole, Sara Raymond.....	A 1.....	Omaha
Coleman, Arthur Bert.....	A 3.....	Wymore
Coleman, Ruby Wilhelmina.....	A 1, (Ex, S).....	Gretina
Collier, Edna Mae.....	A 1.....	Wahoo
Collins, Edla A.....	Au.....	Wakefield
Collins, Herbine Channing.....	Au.....	Lincoln
Collman, Algernon Paddock.....	A 1.....	Lincoln
Colson, Anna Adella.....	A 1, (S).....	Manhattan, Kans.
Colson, Sarah.....	A 1, (S).....	Manhattan, Kans.
Compton, Earl Victor.....	L 1.....	Cedar Rapids
Condra, Mary Cordelia.....	A 1.....	Lincoln
Cone, Edith Mae.....	CA 1.....	Lincoln
Cone, Katherine Elisabeth.....	CA 2.....	Ashland
Cone, Oscar Romaine.....	A 4, (4 yr. Phas.), (S).....	Lincoln
Cone, Owen Wendle.....	A 4, (4 yr. Phas.), (S).....	Lincoln
Conety, Nancy Bell.....	A 1, (S).....	Valley
Cook, Bert Lester.....	Lu.....	Lincoln
Cook, Carleton Harris.....	Lu.....	Malvern, Ia.
Cook, Elmerett J.....	CA 1.....	Lyons
Cook, Esten Henry.....	E 2.....	Buda
Cook, Inez Mabel.....	Au.....	Lincoln
Cook, Kenneth Rice.....	Lu.....	Malvern, Ia.
Coons, Franklin Wayne.....	Au, Ex.....	Osmond
Coons, Isabel May.....	A 3.....	Lincoln
Cooper, Albert Lloyd.....	A 1.....	Fairbury
Cooper, Frank Cornell.....	E 3.....	Lincoln
Cornelius, Ernest Harry.....	A 4.....	Hastings
Cornell, Clare Brown.....	G.....	Lincoln
Corns, Mamie Ellen.....	A 1.....	Syracuse
Correll, Mable Leona.....	A 3.....	Cambridge
Corrick, Lenora.....	A 1.....	Lincoln
Corson, Dexter Will.....	A 1.....	Omaha
Coryell, Verna Grace.....	A 4, T 4.....	Norfolk
Cotton, Harry Edwin.....	E 4.....	Kearney
Coupland, William Cresney.....	E 1.....	Elgin
Cover, Effie.....	A 1.....	Cozad
Cowan, Edward Karl.....	G, (S).....	Crete
Cowan, Harrison Thomas.....	A 3, T 3.....	Lincoln
Cowen, Charles Edward.....	G, (S).....	Clay Center
Cowgill, William.....	CA 1.....	Lincoln
Cox, Ella Mabel.....	Au, (S).....	Wilber
Cozler, Hazel Ruth.....	Au.....	University Place
Craig, Ida Belle.....	A 2.....	Chambers
Craig, Jennie Elspett.....	CA 1, (S).....	Ashland
Cramb, Arthur Benjamin.....	M 2.....	University Place
Crauer, Ray Ayotte.....	L 3.....	Lincoln
Crane, Jay Jarvis.....	A 1.....	Lincoln
Crawford, May Catherine.....	CAu, (S).....	Ottawa, Kans.
Crawford, Robert Platt.....	A 1.....	Lincoln
Creekpaun, Charles Cloyd.....	G, (Ex, S).....	Lincoln
Crocker, Edward Beryl.....	E 1.....	Omaha
Croft, Paul Herold.....	CA 1, (SA, S).....	Fairfield

Cromwell, Richard Oliver.....	G.....	Weeping Water
Cross, Lyman Goodrich.....	E 3, (S).....	Lincoln
Crownover, Lowell G.....	E 1.....	Benedict
Crozier, Grace Leal.....	G, (S).....	Osceola
Cruikshank, Catherine Clara.....	A 4, T 4, (S).....	Lincoln
Cuba, Mildred Elizabeth.....	A 2.....	Schuyler
Cultra, Carrie Eunice.....	A 3, T 3.....	Lincoln
Cummins, Harry Alonzo.....	CA 3.....	Seward
Cummins, Mildred Louise.....	A 2.....	Plattsmouth
Cunningham, Lora Beecher.....	A 4.....	Glenwood, Ia.
Curley, Frank L.....	CA 2.....	Blair
Currens, Frederick Hawley.....	G, (S).....	Omaha
Currier, Edwin Lovejoy.....	G.....	St. Edward
Curry, Earl Raymond.....	L 3.....	Fairbury
Curry, Mary Elizabeth.....	CA 4, (S).....	Harvard
Curti, Ralph Elmer.....	A 3, M 1.....	South Omaha
Curtis, Louise Frances.....	A 4.....	Omaha
Curtiss, Herbert Dewey.....	L 1.....	Bassett
Cusack, Alice Mattie.....	Au.....	North Bend
Cusack, Marie Isabel.....	A 1.....	North Bend
Cushing, Herbert Louis.....	A 2.....	Lincoln
Cutright, John Leo.....	L 2.....	Lincoln
Daboll, Flora Annette.....	Au.....	Chadron
Dacken, Victor R.....	A 2.....	Lincoln
Dahlstrom, August Henry.....	Au, (THS, S).....	Lincoln
Dailley, Edgar Ambrose.....	E 1.....	Wahoo
Daily, Sutton James.....	Mu.....	Tobias
Daiss, Marie Sophie.....	A 1, (S).....	Eustis
Dale, Ben Charles.....	E 1.....	Hartington
Dale, Ernest Edward.....	A 4, L 1.....	Greenwood
Dalton, Laura Irene.....	G, (S).....	Lincoln
Dana, Gladys Elizabeth.....	A 1.....	Lincoln
Daniels, Florence Alice.....	Au.....	Bancroft
Daniels, Mabel Cassie.....	CA 3.....	Bancroft
Daniels, Madge Lorissa.....	A 1.....	Ord
Daniels, Mildred Lyon.....	A 3.....	Ord
Danly, Bert Cunningham.....	CA 4.....	Axtell
Danly, Roy Howard.....	CA 2.....	Axtell
Davidson, Beulah Elizabeth.....	A 2.....	Lincoln
Davis, Adele Marie.....	A 1.....	South Omaha
Davis, Clarence Albert.....	A 1.....	Beaver City
Davis, Florence Emma.....	G.....	Lincoln
Davis, Guy Russell.....	G.....	Lincoln
Davis, Kenneth Samuel.....	A 1.....	Genoa
Davis, Mary Jane.....	CA 2.....	Pawnee City
Davis, Mildred Marguerite.....	A 3, T 3.....	Lincoln
Davis, Phoebe Dorothy.....	Au.....	Ashland
Davis, Robert Leslie.....	Au.....	Lincoln
Davis, Ruth Janette.....	A 3.....	Lincoln
Davison, Helen.....	A 1, (S).....	Lincoln
Dawson, Ralph Ward.....	G.....	Lincoln
Dawson, Reed Barnes.....	A 3.....	Lincoln
Day, Alice Ellen.....	A 4.....	Lincoln
Day, Elsie.....	G.....	Lincoln
Day, Lenore Lucille.....	CAu.....	Clarinda, Ia.
Dean, Paul Herbert.....	CA 1.....	Broken Bow
Deaver, William Henry.....	Au, (S).....	Milligan
Debel, Niels Henriksen.....	A 4.....	Blair
De Bord, Clarence Elmer.....	A 2.....	Roca
De Cou, Richard Cary.....	E 2.....	Lincoln
Deemer, Donald Romaine.....	A 2.....	Wymore
De Lamatre, Harry Clayton.....	A 4, L 1.....	Omaha
De Lamatre, Howard William.....	CA 1.....	Omaha
Delano, Clarissa Rose.....	A 1.....	Lincoln

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De Long, Alton Harrison.....	CA 3.....	Hartington
Delzell, William Robert.....	A 2.....	Lincoln
Delzell, Winnie Elizabeth.....	Au.....	Lincoln
Demel, Christian William.....	L 2.....	Central City
Deming, George Warren.....	CA 1, (THS).....	Fairmont
Dennis, Paul Morris.....	A 1.....	Lincoln
Denny, Glaideth Galnevere.....	G, (S).....	Lincoln
Denton, Marjory May.....	A 1.....	Nebraska City
Derry, Guy Clifton.....	L 1.....	Anoka
Detwiler, Bertha May.....	Au.....	Raymond
Deweese, Lloyd Elmo.....	A 1.....	Lincoln
Dewell, Paul Samuel.....	CA 2, (THS).....	Lincoln
Dewey, Arlie Walter.....	A 4, (S).....	Lincoln
De Wolf, George Elwin.....	A 4, (S).....	Gibbon
Dexter, Beulah Augusta.....	A 4.....	Clarks
Dexter, Jennie Lydia.....	Au.....	Clarks
Deyke, Fred William.....	A 3.....	Columbus
Dick, Ernest Delbert.....	CAu.....	College View
Dick, Robert Payne.....	CA 3.....	North Platte
Dickinson, Zenas Clark.....	A 3.....	Lincoln
Dickson, Lois Marietta.....	A 3.....	Lincoln
Diehl, Breta Evelyn.....	A 4, T 4.....	Stratton
Diers, Harold Mentzel.....	A 3.....	Madison
Dill, Byron Edgar.....	Au.....	Wilber
Dillon, Ruth Lilian.....	Au.....	Lincoln
Dinsmore, Archibald Hughes.....	A 3.....	Lincoln
Dinsmore, Helen.....	A 4, T 4.....	Lincoln
Dirks, John Thomas.....	E 4, (Ex).....	Lincoln
Dixon, Clair Catherine.....	A 1.....	Clarks
Dobbs, Chester Blaine.....	A 1, E 1.....	Beatrice
Dobbs, Evelyn Edith.....	A 4, (S).....	Beatrice
Dobson, Anna L.....	A 1.....	Cedar Rapids
Dodds, Clara Rawson.....	A 1.....	Cheyenne, Wyo.
Dolan, Warren Edgar.....	E 2.....	Arlington
Doll, Henry Clarence.....	CA 2.....	Blair
Dominy, Gladys E.....	A 1.....	Hardy
Donaldson, James Cook.....	G, (S).....	Lincoln
Donley, Claude Evland.....	A 1.....	Seward
Donner, Clara Jane.....	Au, (S).....	Elgin
Donovan, Donald Dale.....	Mu.....	Valentine
Dore, Ruth Elizabeth.....	A 2.....	Normal
Dorwart, Yule Wallace.....	Mu.....	McCook
Doud, Ralph Scranton.....	Au.....	Omaha
Douglass, Earl Bruce.....	E 1.....	Lincoln
Douthitt, Fred D.....	CA 2.....	Lincoln
Dovey, George Oliver.....	L 1.....	Plattsmouth
Dow, Mabel Elizabeth.....	A 4.....	Miltonvale, Kas
Dow, Norman E.....	E 2.....	Omaha
Downing, Jessie Francis.....	A 1.....	Rising City
Downing, Lucile M.....	A 3, T 3.....	Kearney
Doyle, Faye Louise.....	CA 1.....	Lincoln
Doyle, Louis Niven.....	A 4, T 4, (S).....	Lincoln
Doyle, Otho Henry.....	L 3.....	Lincoln
Drake, Elizabeth Hazel.....	A 4, CA 4.....	Beatrice
Drake, Fannie Adrienne.....	G.....	Broken Bow
Drake, Helen Mar.....	CA 4.....	Beatrice
Drake, Nellie Boyd.....	G.....	Broken Bow
Drake, Robert James.....	A 3, T 3.....	Lincoln
Draper, Eleanor Mary.....	Au.....	Lincoln
Draper, Elton Worden.....	Mu.....	Lincoln
Drath, Bertha Marie.....	A 4.....	Lincoln
Drebert, Eleanor.....	Au, (S).....	Lincoln
Dredla, Thomas.....	L 1.....	Crete
Dresher, William Paul.....	E 2.....	Lincoln

Drewing, Clyde Jacob.....	A 1.....	Lincoln
Driftmier, Rosette Margaret.....	Au, (Ex).....	Clarinda, Ia.
Driscoll, John Lynn.....	A 3.....	Boise, Idaho
Dryden, Frank Merle.....	A 4.....	College View
Dunaway, Emmett Harrison.....	A 3.....	Overton
Dunkin, Dorothy Vestina.....	A 3, T 3.....	Ravenna
Dunkin, Erma Matsler.....	CA 2, (FA).....	Ravenna
Dunlap, Alexander James.....	L 2.....	Lincoln
Dunn, Florence.....	CA 1.....	Osceola
Dunten, Wesley Lewis.....	A 2, (Ex, S).....	Pleasant Dale
Duras, Josephine Lucia.....	G, (S).....	Lincoln
Dusatko, Louise Anna.....	A 3, T 3.....	Clarkson
Dutton, George Reynolds.....	A 2, CA 2.....	Hastings
Dworak, Mayme.....	G.....	Oakdale
Dwyer, Margaret B.....	A 1, (S).....	Arden
Dye, Marguerite Lucile.....	A 1.....	Lincoln
Dysart, Laberta Rosamond.....	A 3, T 3.....	Eagle
Eads, Lucile Blanche.....	G.....	Omaha
Eason, Alice Faith.....	CA 2.....	North Bend
Eason, Myrtle Lucy.....	CA 2.....	North Bend
Eaton, Arleigh M.....	A 1.....	Lincoln
Eaton, Frank M.....	CA 2.....	Aurora
Eaton, Inez Maud.....	A 2, (S).....	Aurora
Eaton, Roy Wesley.....	A 4, T 4.....	Lincoln
Eberman, Aileen Mary.....	A 2.....	Davenport
Ebmeyer, Elsie Dorothy.....	A 4, T 4.....	Lincoln
Edgar, Park Lowell.....	E 4, (Ex).....	Omaha
Edison, Oskar Edwin.....	E 3.....	Gothenburg
Edmister, Clifford Raymond.....	A 2.....	Lincoln
Edson, Lewis Ulmont.....	A 1.....	Lincoln
Edwards, Herbert Christian.....	E 1.....	Kearney
Edwards, Lulu Orpha.....	Au, (THS).....	Alexandria
Egan, Thomas Germaine.....	CA 1, A 1.....	Nebraska City
Eggenberger, Emma Ada.....	Au.....	Strang
Ehlers, Bertha Helen Margaret.....	CA 1.....	Scribner
Eichar, Winnifred Angela.....	A 3.....	Lincoln
Eklblad, Philip Richard.....	M 1.....	Cleburne, Kans.
Eldred, William Carroll.....	E 1.....	McCook
Elley, Harold Walter.....	G.....	Madison
Elliott, Ada Laura.....	A 1.....	Lincoln
Elliott, Loring.....	A 1.....	Omaha
Elliott, Mary Elizabeth.....	G.....	Columbus
Elliott, Robert Irving.....	A 4.....	Lincoln
Ellis, Ira Cecil.....	CA 1.....	Lincoln
Ellison, Ralph Harrison.....	E 1.....	Cedams
Ellsworth, Dorothy.....	A 1.....	Lincoln
Elmore, Clarence Jerome.....	G, (S).....	Grand Island
Elwell, John Alois.....	CA 3.....	Springfield
Emal, Lloyd Filmore.....	Mu.....	Deep River, Ia.
Emley, Alban Maurice.....	L 1, A 2, (S).....	Wisner
Emley, Arthur Averill.....	A 1.....	Wisner
Enfield, Frederick Donald.....	L 2.....	Valley
Engleman, John Ireland.....	A 3.....	Grand Island
English, George William.....	E 2.....	Lexington
Engstrom, Glen Ellsworth.....	A 1.....	Holdrege
Epperson, Charles Haylett.....	A 3.....	Clay Center
Erb, William Lee.....	L 1.....	Gothenburg
Erickson, Carl Petrus.....	L 1.....	Holdrege
Ericson, Melvin.....	E 3.....	Stromsburg
Ernst, Edna White.....	A 1.....	Lincoln
Erskine, Earl Bradley.....	M 3.....	Tilden
Estes, Winifred Beatrice.....	CA 1.....	Lincoln
Evans, Edna Ruth.....	CA 2, A 2, (S).....	Fairbury
Evans, Myrle Charles.....	E 4.....	Stella

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Evans, Robert V.....	CA 4.....	Lincoln
Eveland, Margaret Gertrude.....	A 2.....	Lincoln
Everts, Glenn Stearns.....	A 1.....	Lincoln
Ewing, Frances McKinnon.....	Au, (Ex).....	Roca
Ewing, Halle Laura.....	G, (S).....	Lincoln
Ewing, Loren Laverne.....	A 2.....	Diller
Fairbank, James Partridge.....	E 1.....	Diller
Fairchild, Georgia Wright.....	A 1.....	Kennard
Farley, Fletcher Lawrence.....	L 3.....	Bancroft
Farley, Marguerite La Flesche.....	Au.....	Bancroft
Farlow, Vera Marie.....	A 3.....	Beatrice
Farman, Florence.....	A 4, (S).....	Rushville
Farman, George Franklin.....	A 3.....	Rushville
Farrell, Annie Patience.....	A 4, T 4, (THS).....	Hastings
Fate, Clara May.....	A 4, (S).....	Weeping Water
Faulhaber, Marie Helen.....	Au.....	Lincoln
Fawthorp, Grace Ethel.....	A 4, T 4, (S).....	Lincoln
Fedde, Margaret Sophie.....	A 3.....	Benson
Fee, Ray Evans.....	E 2.....	Omaha
Feemster, Silas Calvin.....	G.....	York
Ferguson, Ellen Margaret.....	A 2, (S).....	Mankato, Kans.
Ferris, Joseph Wakin.....	L 1.....	Lincoln
Fiengenbaum, Inez Maude.....	Au.....	Lincoln
Field, Edith Caroline.....	G, (S).....	Lincoln
Filley, Horace Clyde.....	G.....	Lincoln
Filley, Nellie Edith.....	CAu, (S).....	Beatrice
Fillipi, Joseph A.....	A 2.....	Clarkson
Flinigan, Mary Agnes.....	Au.....	Havelock
Finley, Florence Bell.....	CA 1.....	Wall Lake, Ia.
Finley, Leonard Paul.....	E 1.....	Wymore
Finley, Robert Halbert.....	E 2.....	Omaha
Finney, Jeanette Heaton.....	A 1.....	Lincoln
Fischer, Mary Elizabeth.....	A 1, (S).....	Weeping Water
Fischer, Walter Alfred.....	CA 2.....	Lincoln
Fishbach, Oscar Herald.....	CA 1.....	Beatrice
Fisher, Myrtle Idella.....	A 1.....	Norfolk
Fishwood, Halley M.....	E 3.....	Lincoln
Fishwood, Hazel Charlotte.....	A 4, T 4, (FA, S).....	Lincoln
Fitch, Robin Wynne.....	A 4, T 4.....	Lincoln
Fitch, Ruth Ione.....	A 2.....	Lincoln
Fitzgerald, Ellen.....	Au, (S).....	Grafton
Fitz Gerald, Elsie.....	A 2.....	Lincoln
Fitz Gerald, Helen.....	Au, (FA).....	Lincoln
Flake, William Edward.....	G.....	Bellwood
Flansburg, Robert Harlan.....	A 1.....	Lincoln
Fleck, Harlow Conrad.....	E 1.....	Lincoln
Fleck, Vera Mary Olive.....	A 2.....	Lincoln
Fleetwood, Leonard Titus.....	A 1.....	Wakefield
Fleming, Linna Marie Thompson.....	Au.....	Lincoln
Fleming, William Cleo.....	E 1.....	Beaver City
Flint, Grace Elten.....	Au, (S).....	Lincoln
Flint, Lena Bartlett.....	Au, (THS, S).....	Lincoln
Flory, Robert Davison.....	L 2.....	St. Edward
Floyd, Albert Ralph.....	A 1.....	St. Joseph, Mo.
Foe, Howard Samuel.....	L 1.....	Red Cloud
Folda, Albin.....	A 2.....	Clarkson
Folken, Garrett, Jr.....	A 1.....	Schuyler
Follmer, Pansy Marguerite.....	CA 2.....	Oak
Folsom, Phebe.....	A 1.....	Lincoln
Folsom, Willard Miller.....	A 1.....	Lincoln
Fonda, James Everett.....	Mu.....	North Platte
Forbes, Earl.....	CA 1.....	Fairmont
Forbes, Jerome Richard.....	A 4, L 1.....	Wayne
Fordyce, Pearl Anna.....	A 1, (S).....	Hiawatha, Kans.

Foreman, Joseph Madison.....	L 1.....	Alvo
Formanek, Joseph Frank.....	E 3.....	Lincoln
Forsling, Clarence Luther.....	CA 2.....	Kimball
Forster, Elizabeth.....	A 2, (S).....	Fremont
Foster, Bertha Ellen.....	A 3, (S).....	Beatrice
Foster, Bessie.....	Au, (Ex).....	Sterling
Foster, Edwin Bernard.....	A 1.....	Lincoln
Fouts, Henry W.....	A 2.....	Diller
Fouts, Kenneth Clay.....	CA 2.....	Diller
Fowle, Guy Gilbert.....	E 1.....	Tekamah
Fowler, William Kirk, Jr.....	A 3.....	Lincoln
Fraker, Lloyd Royce.....	L 1, (S).....	Lincoln
Frame, Arthur.....	Lu.....	Fairbanks, Alaska
France, Charles William.....	A 1, (THS).....	Milford
Frank, Owen Ashcraft.....	L 3.....	Grand Island
Frank, Theodore Louis.....	E 2.....	Ponca
Frank, William Ernest.....	A 4, L 1.....	Grand Island
Franklin, N. Victor.....	A 8, T 3, (S).....	Cambridge
Franklin, Philip Leslie.....	A 4, (Ex, S).....	Lexington
Frazier, Cornelia.....	A 1.....	Lincoln
Freiday, Lena May.....	Au, (Ex).....	Harvard
Freitag, Albert.....	E 4.....	Grand Island
Frickey, Lillian Edna.....	Au.....	York
Friedel, Morris Moses.....	A 1.....	Omaha
Friedline, Cora Louisa.....	A 4, T 4, (S).....	Lincoln
Fritchhoff, Alma Catherine.....	Au.....	Omaha
Frost, Ernest Elworth.....	E 3.....	Lincoln
Frost, Florence.....	A 2.....	Lincoln
Frost, Hubert Melvin A.....	A 4.....	Uehling
Frost, Irving Karl A.....	A 1.....	Uehling
Frost, Roland Meredith.....	A 4.....	Lincoln
Froyd, Edna Christine.....	A 1.....	Wakefield
Fudge, Harry Albert.....	CA 1.....	Ulysses
Fulk, Joseph Richard.....	G, (S).....	Seward
Fullaway, Samuel Vanstone, Jr.....	G.....	Omaha
Fuller, C Rex.....	A 2.....	Emerson
Fulmer, Ellis Ingham.....	G, (S).....	University Place
Fulton, Edna Inez.....	A 3, T 3.....	Lincoln
Fulton, Gertrude.....	Au.....	Lincoln
Fulton, Raymond Allison.....	E 2.....	Table Rock
Funke, Carolyn.....	A 1.....	Blue Hill
Gaeckler, Maude Hazel.....	G, (S).....	Lincoln
Gail, Floyd Whitney.....	G.....	Lincoln
Galbraith, Claude Eugene.....	A 1, (S).....	Beemer
Galbreath, William Robert.....	M 1.....	Greenfield, O
Gallagher, Edward Mann.....	A 4.....	O'Neill
Galley, Maude Evelyn.....	A 1.....	Columbus
Galloway, Blanche.....	A 4, T 4.....	Holdrege
Gant, Minnie.....	Au, (S).....	Lincoln
Ganz, Carl Donald.....	A 2.....	Dunbar
Garber, Vera Letitia.....	A 1.....	Lebanon, Kans.
Gardiner, Charles Howard.....	A 1.....	Omaha
Garcy, Lewis Farr.....	CA 2, (Ex, S).....	Beaver City
Garner, Amy Katherine.....	A 1.....	Lincoln
Garrett, Ralph Wallace.....	L 2.....	Madison
Garrison, Fred.....	E 1.....	Lincoln
Gates, Leroy Mallaleu.....	A 4.....	University Place
Gault, Norman Cox.....	A 1.....	Omaha
Gearhart, Ruth Willard.....	Au, (S).....	University Place
Gee, Elmer Charles.....	E 4.....	Lincoln
Gee, Marion Louise.....	A 1.....	Lincoln
Gehring, Henry.....	Au, (S).....	Surprise
Geib, George D.....	A 2.....	Omaha
Geissler, Paul Christopher.....	M 2.....	Colorado Springs, Colo.

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Gellatly, Harry Chalmers.....	A 1.....	Lincoln
Gelwick, Arthur Ben.....	A 3.....	Ulysses
Gentry, Harold Ellis.....	E 1.....	Gering
Gentzler, Russell Walker.....	A 1.....	Gothenburg
George, Arthur Gray.....	CA 4.....	Cumro
George, Mary Jane.....	Au. (S).....	Lincoln
George, Vincent Columbus.....	E 1.....	Cumro
Gerlaw, Robert Frantz.....	L 1.....	Auburn
Getty, Robert Ellsworth.....	G, CA 4.....	Waco
Giberson, Roy Harrison.....	CA 3.....	Omaha
Gibson, Irma Vida.....	A 4, T 4.....	Fremont
Gibson, James Patterson, Jr.....	E 4.....	Lincoln
Giffin, Wilson Cassius.....	E 3.....	Lincoln
Gilfry, Harold Rhea.....	E 2.....	Arlington
Gill, Barney William.....	L 2.....	Diller
Gill, Eula Bell.....	Au.....	Fort Morgan, Colo.
Gillespie, Raymond Berrier.....	E 2.....	Lincoln
Gilmartin, Mollie.....	A 1, (S).....	Lincoln
Gilmore, Melvin Randolph.....	G.....	Bethany
Gilmore, Robert Leroy.....	L 3.....	York
Gish, Oliver Holmes.....	G.....	Manhattan, Kan.
Gist, Isham Reavis.....	A 4.....	Falls City
Given, Loretta Allen.....	A 3, T 3.....	Lincoln
Glasser, Charles Edwin.....	E 1.....	Bradshaw
Glenn, Ray Fielding.....	Au. (Ex).....	Seward
Goddard, Edith Alta.....	A 4, (S).....	Lincoln
Goddard, Grosvenor.....	E 3.....	Woodbine, Ia.
Godfrey, Earl Lester.....	CA 2.....	Cozad
Goehner, William O.....	CA 2.....	Seward
Goetze, Hartmann Henry.....	E 2.....	Lincoln
Goggins, Arleigh Clare.....	A 1.....	Lincoln
Goggins, Harry Clinton.....	L 3.....	Lincoln
Golden, Bernice Ellen.....	CA 1.....	Lincoln
Golden, Clear Clement.....	A 1.....	Lincoln
Golden, Thomas Vincent.....	CA 3.....	Lincoln
Goldsmith, Everett Lee.....	E 2.....	Lincoln
Good, Anabel.....	A 4.....	Cozad
Good, Dorothy Clara.....	A 1.....	Lincoln
Goodman, Walter Frank.....	CA 2.....	Lincoln
Goodnough, John Harland.....	M 3.....	Chadron
Goodsell, Minnie Elizabeth.....	Au. (Ex).....	Craig
Gordan, Elizabeth Hope.....	A 3, T 3.....	Lincoln
Goss, Effa Dale.....	A 1.....	Lincoln
Goss, Loy.....	A 3.....	Lincoln
Gould, Stuart.....	A 2.....	Omaha
Goy, Brice.....	E 1.....	Sidney, Ia.
Graham, Ethel Victoria.....	A 1.....	University Place
Graham, George Arthur.....	E 4.....	Lincoln
Graham, Harold Wilson.....	A 3.....	Omaha
Graham, John Wilmot.....	L 3.....	Fremont
Graham, Robert Hamel.....	G.....	Lincoln
Grainger, Elsie Elizabeth.....	A 3.....	Lincoln
Gramlich, Louis Trumble.....	E 4.....	Fort Crook
Gramlich, Ralph Clifford.....	M 3.....	South Omaha
Grant, Frank Clarence.....	L 2.....	Auburn
Grant, Jean Anderson.....	A 3.....	Lincoln
Grant, Margaret Williams.....	A 1.....	Lincoln
Graul, Keith Seward.....	E 2.....	Exeter
Graves, Ernest Howard.....	CA 4.....	Lincoln
Graves, Jessie Belle.....	Au.....	Lincoln
Gray, Elsie Alida.....	A 4, (S).....	Lincoln
Gray, Geraldine Hortense.....	A 3.....	Columbus
Green, Perth Louise.....	Au. (S).....	Lincoln
Green, Frank Emerson.....	G, (S).....	Malvern, Ia.

Green, Ralph Dennis.....	A 4, T 4.....	Beaver City
Green, Roy Melvin.....	E 3.....	McCook
Greenberg, Abe.....	A 4, M 2.....	Omaha
Greenstone, Sam.....	A 1.....	Lincoln
Greer, Raymond Clifton Leach.....	E 1.....	Marquette
Gregg, Lowell Ernest.....	CA 2.....	Omaha
Grennan, John.....	Eu.....	Lincoln
Grier, Kenneth Peter.....	E 2.....	Seneca
Griffin, Bayard Franklin.....	L 2.....	Lincoln
Griffin, Sam Spielman.....	L 2.....	Lincoln
Griffith, Donee.....	G, A 4, (S).....	Lincoln
Grimes, John Herbert.....	E 3.....	Blue Hill
Grimison, James Ernest.....	A 3.....	Lincoln
Grimm, Florence Marie.....	A 4, T 4, (S).....	Lincoln
Grimm, Henry Arnold.....	A 2.....	Lincoln
Grimm, Myrtle Amanda Marguerite.....	A 1, (S).....	Ulysses
Griswold, Dwight Palmer.....	A 3.....	Gordon
Griswold, Paul Fisher.....	Au.....	Omaha
Groesbeck, Lida.....	Au.....	Lincoln
Gross, Edward Robert.....	CA 4, (S).....	Lincoln
Gross, John Joseph.....	L 1.....	Lincoln
Groves, Benjamin Harrison.....	A 4, (S).....	Superior
Grumman, Anne Sophia.....	G, (S).....	Omaha
Grummann, Herbert Richard.....	A 2.....	Lincoln
Grupe, Edgar Young.....	E 2.....	Lincoln
Guenzel, Carl Stanley.....	L 2.....	Lincoln
Guidinger, Will Walter.....	A 4.....	Schuyler
Guilfoil, James Howard.....	L 3.....	Hyannis
Gundermann, Marguerite Marie.....	A 1.....	Ohioa
Gunther, Fred John.....	E 3.....	Weeping Water
Gurney, Norris Edmund.....	CA 1.....	Fremont
Guthrie, Richard Terrell.....	G.....	Lincoln
Gutruie, Jeannette.....	Au.....	Newman Grove
Haarmann, Elsa Helene.....	A 2.....	Omaha
Haas, Marjorie.....	A 1, (S).....	Syracuse
Hacker, Francis Aloysius.....	E 2.....	Friend
Hadley, Howard.....	A 1.....	Lincoln
Hagelin, Clarence Elmer.....	CA 1, E 1.....	Wahoo
Hagelin, Paul Albert.....	A 1.....	Wahoo
Hagenstein, Guss, Jr.....	L 3.....	Spencer
Hager, Lucile.....	A 3, T 3.....	Omaha
Hager, Robert Henry.....	A 1.....	Lincoln
Hager, Walter Elsworth.....	A 1.....	Bellwood
Haggart, Ethel Genevieve.....	A 2.....	St. Paul
Haggart, Ralph Archie.....	L 3.....	St. Paul
Hahn, Helen Magdalene.....	A 4.....	Wayne
Hahn, Ralph Waldo.....	A 3.....	Wayne
Hahne, Ernest Herman.....	L 3.....	Lincoln
Hain, Eugene Fred.....	E 1.....	Benkelman
Haines, Frances Edith.....	M 4.....	Columbia, Mo.
Hajek, Christina Mary.....	Au, (THS, S).....	Lincoln
Hakanson, Ruth Viola.....	CAu. (Ex).....	Fairfield
Hakel, James Adolph Lawrence.....	A 1.....	Ceresco
Hale, Gifford Nathan.....	L 3.....	Lincoln
Haley, William Bernard.....	L 3.....	Valentine
Hall, Daisy L.....	A 2.....	Nelson
Hall, Harry Victor Malan.....	G.....	New Haven, Conn.
Hall, Helen Elizabeth.....	CA 1.....	Lincoln
Hall, John Tillotson.....	E 1.....	Pender
Hall, Matie Ella.....	CA 4, T 4.....	York
Hall, Oscar Earl.....	A 1.....	Pawnee City
Hall, Walter.....	E 1.....	Tecumseh
Halle, Alice Beulah.....	A 1, (S).....	Lincoln
Halligan, Paul Rolfe.....	L 3.....	North Platte

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Halligan, Victor Hugo.....	A 2.....	North Platte
Halliwel, Leo Blair.....	E 1.....	Odessa
Halmes, George Nicholas.....	E 2.....	Weeping Water
Ham, Eugene Fred.....	E 1.....	Benkelman
Ham, John Paul.....	M 2, (Ex, S).....	Benkelman
Hamel, Louise Sterrette.....	CA 1.....	Hastings
Hamilton, Hazel Ellen.....	A 2.....	Lincoln
Hamilton, Luther Francis.....	G, (Ex).....	Douglas
Hamilton, Margaret.....	Au, (S).....	Omaha
Hamilton, Thomas Franklin.....	A 1.....	Lincoln
Hammitt, Walter Frank.....	M 4.....	Garwin, Ia.
Hammond, Mallie Belle.....	A 2.....	Pawnee City
Hammond, Olive Southworth.....	A 1.....	Omaha
Hampton, Josephine.....	A 1.....	Alliance
Hanel, Osa.....	Au, (Ex).....	Trenton
Hanford, Ruth Louise.....	G.....	Lincoln
Hanisch, Louis Everett.....	A 3, M 1, (S).....	Rockville
Hanks, Mildred Olive.....	Au.....	Lincoln
Hanlen, Grace Matilda.....	CAu.....	Tilden
Hanlen, John Greer Leroy.....	L 2.....	Tilden
Hanlen, Wayne Edwin.....	A 1.....	Tilden
Hanley, Frederick Reinig.....	G, (S).....	Lincoln
Hanna, Joy Elaine.....	CA 1.....	Lexington
Hanna, Ralph Adolph.....	Au, (S).....	Lincoln
Hannah, Margaret Louise.....	G.....	Tilden
Hannan, William Everett.....	G.....	Lincoln
Hans, Oscar Ernest.....	A 2, E 2.....	Stanton
Hansen, Elmer Marion.....	A 2, (4 yr. Pharmacy).....	Lincoln
Hansen, George Harold.....	Mu.....	Fairbury
Hanson, Laura Grace.....	A 4, T 4.....	Alexandria
Hanson, Marian Elise.....	A 3.....	Lincoln
Hanthorn, Emma Evelyn.....	G.....	Lincoln
Hanthorn, Mattie Alice.....	Au, (S).....	Lincoln
Hanthorne, Lyman Leigh.....	G.....	Normal
Hanzlik, Carolyn Svetla.....	A 4, (Ex, S).....	David City
Hanzlik, Milo Otto.....	A 4, L 2.....	David City
Hapke, Fred Louie.....	E 1.....	Wahoo
Harden, Edmund Edgar.....	E 1.....	Liberty
Harden, Lloyd.....	E 3.....	Lincoln
Hardin, Claire Martha.....	A 3.....	Alma
Hardt, Henry Louis.....	Au, (S).....	Lincoln
Hardy, Anna Marie.....	A 4, (S).....	University Place
Harger, Chalmer M.....	A 2, (4 yr. Pharmacy).....	Danbury
Hargett, Anderson J.....	G, (S).....	Lincoln
Harkson, Ulysses Severin.....	E 1.....	Portland, Ore.
Harley, Howard Robertson.....	CA 2.....	Lincoln
Harman, Dewey Jehu.....	A 4, L 2.....	Lincoln
Harman, Grace L.....	A 2, (S).....	Lincoln
Harman, Maud.....	A 2, (S).....	Lincoln
Harman, Susie Emolyn.....	A 3, (S).....	Omega, Okla.
Harmon, Hoyt Henry.....	E 3.....	Nebraska City
Harmony, George Washington.....	A 1.....	Chadron
Harms, Charles Wesley Warren.....	M 3, G.....	Clatonia
Harms, Ruby Cornelia.....	Au.....	Lincoln
Harnsberger, William Ernest.....	A 1.....	Ashland
Harpham, Dorothy Maud.....	A 2.....	Lincoln
Harpham, Julius Vivyan.....	A 2.....	Lincoln
Harpster, Walter Clarence.....	A 3, (S).....	Lincoln
Harrington, George.....	A 3.....	O'Neill
Harris, Clifford Blaine.....	E 4.....	Obiowa
Harris, George Edward.....	CA 1.....	Lincoln
Harrison, Benjamin.....	L 3.....	Dunbar
Harrison, Peter Ira.....	L 1.....	Carleton
Harriss, Beulah Ann.....	A 2.....	Fairbury

Harritt, Hugh Clinton.....	CA 1.....	York
Hart, Gladys.....	A 2.....	Hardy
Hart, James Stokes.....	A 1.....	Herman
Harte, Lloyd Warden.....	E 3.....	Gibbon
Harte, Lucy Christina.....	A 4.....	Omaha
Hartley, Ethel Pierce.....	A 1.....	Lincoln
Hartley, Willard Aaron.....	A 3.....	Lincoln
Hartwell, Grace Darling.....	A 1.....	Pawnee City
Hartwell, John Garrett.....	L 3.....	Aladdin, Wyo.
Harvey, Andrew, Jr.....	M 4.....	North Bend
Harvey, Clarence Wayne.....	Lu.....	Lincoln
Harvey, Howard Clemons.....	A 3.....	Lincoln
Haskell, Roswell.....	A 3.....	Lincoln
Hastings, Robert Richardson.....	L 3.....	Crete
Hathaway, Henry Cook.....	G.....	Lincoln
Hathway, Oliver Channing.....	A 3.....	Lincoln
Hauptman, Charles Albert.....	E 2.....	Fremont
Hauptman, Irma Lucinda.....	Au, (FA).....	Lincoln
Hawes, Annie.....	G.....	Lincoln
Hawkins, Earl G.....	E 1.....	Oshkosh, Wis.
Hawkins, Minnie Etta.....	A 1, (FA).....	Ord
Hawthorne, William Lawrence.....	A 2.....	Lincoln
Haycock, Almira Rivers.....	Au.....	Callaway
Hayes, Frank Albert.....	CA 4.....	Hardy
Hayes, Relxford Walsworth.....	A 1.....	Savannah, Mo.
Hayes, Zoe Isabel.....	A 2.....	Hardy
Haynes, Grace Elizabeth.....	Au, (Ex).....	Shenandoah, Ia.
Haynes, James Wilbur.....	E 2.....	Omaha
Hays, Hobart Glen.....	A 1.....	Ashland
Heacock, Mary Mills.....	A 4, (S).....	Lincoln
Heagney, Agnes Helen.....	A 1, (S).....	Lincoln
Heaton, Helen Clare.....	A 2.....	Wahoo
Hecht, Lester Edward.....	E 1.....	Plainview
Heckler, Bernice Stewart.....	A 1.....	Lincoln
Heeney, Mary Loretta.....	A 1, (S).....	Hubbard
Heilman, Earl Jacob.....	A 1.....	Lincoln
Heine, Clinton Daniel.....	A 4, M 2, (S).....	Hooper
Heine, Vincent Julius.....	CA 3.....	Hooper
Heitzhausen, Fred Henry.....	E 1.....	Plattsmouth
Heller, David Glenn.....	CA 1.....	Broken Bow
Hellner, Anna Marie.....	A S, T 3, (Ex, S).....	Oxford
Hendricks, Jesse Frank.....	CA 3.....	Nelson
Hepperlen, Thomas Andrew.....	A 3, (Ex, S).....	Beatrice
Herman, Adolph S. V.....	Au.....	Lincoln
Herminghaus, Ernst Herman.....	CA 4, (FA).....	Lincoln
Herold, Matthew Gering.....	A 1.....	Plattsmouth
Herrick, Marie Louise.....	A 2.....	Lincoln
Hess, Harvey William.....	A 3.....	Hebron
Hetzler, Ida Maurine.....	A 4.....	Albion
Hewett, James Kelley.....	E 4.....	Alliance
Hewitt, Dean Myers.....	A 1.....	David City
Hewitt, Homer Guy.....	A 2.....	Brewster
Hewitt, Lucy Rockwood.....	G.....	Lincoln
Heyn, Hugo Gerald.....	E 2.....	Omaha
Hiatt, Marjetta May.....	A 3, T 3.....	Murray
Hickman, Arthur Lynn.....	E 3.....	Aurora
Hickman, Goldie Charlotte.....	A 3.....	York
Hickman, Leon Archibald.....	L 1.....	Seward
Hiett, Myrtle Anna.....	Au.....	Sidney
Higgins, Edith Charity.....	A 2.....	Beatrice
Higgins, Ray Morten.....	A 4, L 1.....	Hartington
Hill, Delila Almada.....	A 2.....	Falls City
Hill, Florence Bernice.....	A 3, T 3.....	Lincoln
Hill, Mildred Arletta.....	A 1.....	Lincoln

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Hill, Phoebe Clara.....	A 1.....	Lincoln
Hill, Ralph Wright.....	A 1.....	Hebron
Hill, Willard Alvin.....	E 2.....	Lincoln
Hills, Ethel Fanny.....	A 2.....	Logan, Ia.
Hills, Ruby.....	A 2.....	Lincoln
Hiltner, Arthur Herbert.....	A 4.....	Lincoln
Hindes, Earle P.....	Eu.....	Scottsbluff
Hines, Leon Llewellyn.....	A 2.....	Benkelman
Hinman, Arley Ray.....	E 1.....	Blue Springs
Hinterlong, Anna Laura.....	G.....	Minden
Hirsching, Harold Miller.....	A 1.....	Lincoln
Hitchcock, Julia.....	A 1.....	Lincoln
Hixenbaugh, Walter Alden, Jr.....	A 1.....	Omaha
Hlava, Adolf Virgil.....	E 1.....	Ravenna
Hoagland, Ora.....	A 1.....	Plainview
Hoatson, Vernon Lionel.....	CA 2.....	Hebron
Hobson, Cloy St. Clair.....	A 1.....	Beaver City
Hoch, Edwin Franklin.....	CA 1.....	Lincoln
Hockett, Ethel Matilda.....	Au.....	Lincoln
Hodapp, Edward Paul.....	A 4, T 4, (Ex. S).....	Humboldt
Hoes, Clara May.....	CA 2.....	Hartington
Hoffmeister, George W.....	A 3, M 1.....	Imperial
Hofmann, Fred Wenzl.....	G, (S).....	Lincoln
Hogan, Nellie Monica.....	Au, (S).....	Jackson
Hoham, Mayme.....	CAu, (S).....	Greenwood
Hohmann, William Candee.....	A 1.....	Lincoln
Holcomb, Mary Priscilla.....	A 4, T 4.....	Osceola
Holcombe, Clinton Steele.....	A 1.....	Maxwell
Holen, Charles Emanuel.....	A 2, (S).....	Bertrand
Holen, Mabelle Amanda.....	A 1.....	Bertrand
Holland, Marvin Kavanaugh.....	A 1.....	Tecumseh, Okla.
Holland, Robert Ellsworth.....	CA 1.....	Fremont
Holland, Vivienne.....	A 1.....	Lincoln
Hollenback, Carl Francis.....	A 1.....	Sterling
Hollinger, Lee Duncan.....	Au.....	Omaha
Hollingshead, Vesta Pearl.....	A 1.....	Lincoln
Hollingsworth, Robert Mark.....	Mu.....	Arapahoe
Hollingsworth, Reta Catherine.....	A 1.....	Lincoln
Hollister, Frances Marie.....	CA 1.....	Red Cloud
Holloway, Helen Marie.....	Au.....	Lincoln
Holm, Sadie Elizabeth.....	Au.....	Lincoln
Holman, Grace M.....	A 4, T 4.....	Tobias
Holmes, Helma Lou.....	G, (S).....	Tecumseh
Holmes, Rachel Edna.....	G, (S).....	Lincoln
Holtz, Frederick Carl.....	E 4, (S).....	Wahoo
Holtz, Mary Loraine.....	CA 2.....	Randolph
Hookstra, Merle Eliza.....	CA 2.....	Tonawanda
Hooper, Bert Lester.....	Mu.....	College View
Hooton, Mary Belle.....	A 4, T 4, (S).....	Lincoln
Hoppe, Albert August.....	A 1.....	Lincoln
Hooper, Phoebe May.....	G, (S).....	University Place
Hornberger, Evans Zacharius.....	L 3.....	Lincoln
Horne, Louis Willard.....	CA 2.....	South Omaha
Horton, Frances Madeline.....	A 3, T 3.....	Benson
Horton, Fred Lamerton.....	A 3, M 1.....	Newcastle, Wyo.
Horton, Harvey Amos.....	G.....	McPherson, Kans.
Horton, Mary Gertrude.....	A 2.....	Greeley
Hosek, William James.....	CA 1, E 1.....	Ravenna
Hosford, Edwin Leith.....	E 2.....	Lincoln
Hosettler, Florence Maxine.....	A 4.....	Kearney
Houchen, Lydia Hazel.....	A 1, (Ex. S).....	Beaver Crossing
Hoagas, Lida Emelyn.....	G, (S).....	Normal
Hough, John Walter.....	A 2.....	Lincoln
Houlette, Dale Gardner.....	Mu.....	Ravenna

Houlette, Leslie Reede.....	Mu.....	Ravenna
Houmark, Willie Jensen.....	A 1.....	Minden
House, Adella.....	Au.....	Broken Bow
Houser, Roland.....	CA 1.....	Lincoln
Housh, Elsie Josephine.....	A 2.....	Neligh
Houska, Emily Goldie.....	A 1.....	Omaha
Howard, George Earle.....	L 3.....	Lincoln
Howard, Lawrence Riggs.....	G.....	Lincoln
Howard, Merle Harrison.....	L 3.....	Omaha
Howard, Rena Althea.....	CA 4, T 4.....	Lincoln
Howard, Robert Francis.....	G, (S).....	Lincoln
Howard, Warren Harold.....	Lu.....	Omaha
Howe, Donald Kenneth.....	A 2.....	Omaha
Howie, Ethel Lee.....	G.....	Lincoln
Hrbek, Cyril Jeffrey.....	Au, (THS).....	Lincoln
Hrubesky, Ida.....	A 2, (THS, Ex).....	Geneva
Hubenthal, George William, Jr.....	Mu, Au.....	Beemer
Huber, Kirk.....	CA 1, A 1.....	Blair
Huck, Carl Marshall.....	E 2.....	North Bend
Hudson, Charles Bartlett.....	L 1.....	Omaha
Huffman, Helen.....	A 1.....	Sheridan, Wyo.
Hugg, Edwin Orville.....	A 1.....	Lincoln
Hughes, Gwendolyn.....	A 1.....	Norfolk
Hughes, Lulu.....	Au, (S).....	College View
Hughes, Winifred.....	Au.....	Lincoln
Hulse, Anna Maud.....	A 4, (Ex, S).....	Mankato, Kans.
Hummel, Earl Wesley.....	CA 2.....	Lincoln
Hummel, Nannie Pearl.....	A 2.....	Lincoln
Hunkins, Ralph Valentine.....	A 3, T 3.....	Stratton
Hunt, Glenn Howard.....	Mu.....	Lincoln
Hunt, Loren Thomas.....	Mu.....	Lincoln
Hunter, Annamae.....	Au.....	Lincoln
Hunter, Myrtle Elizabeth.....	G, (S).....	Lebanon
Hurlbut, Floy.....	A 1, (S).....	Amland
Hurttt, Leon Claude.....	CA 3.....	Wilsonville
Husmann, Ernest Henry.....	Au, (S).....	Exeter
Huston, Harry Edwin.....	CA 1.....	Brock
Hutchinson, Mark Eastwood.....	G.....	University Place
Huwaldt, Edward.....	A 4, T 4.....	Randolph
Hyde, Edward Leslie.....	L 3.....	Lincoln
Hyde, Elizabeth.....	A 3.....	Lincoln
Hyder, Ruth.....	A 4, T 4.....	Lincoln
Hymer, Clara Brown.....	CAu.....	Grand Island
Ickman, Leo E. Victor.....	E 1.....	West Point
Ikari, Shigeshi.....	Mu.....	Kagashima, Japan
Inches, Mary Jeanette.....	G.....	Sterling, Kans.
Ingalsbe, Grace.....	G, (S).....	Inland
Inhelder, Benjamin John.....	A 3.....	Pierce
Inhelder, Ruth.....	Au.....	Pierce
Inness, Robert John.....	L 1.....	Osceola
Irvine, Robert Steele.....	G.....	New York City, N. Y.
Irwin, George Worthington.....	A 1.....	Creighton
Irwin, Mary Etho.....	A 1, (S).....	Horton, Kans.
Israel, Russell William.....	A 2.....	Omaha
Ives, Louise Henriette.....	A 1, (FA).....	Lincoln
Jack, Cecil Heyward.....	A 1, (THS).....	Eustis
Jackson, Arthur Earl.....	A 2.....	Nelson
Jackson, Mabel Emily.....	Au.....	Lincoln
Jackson, Mary Frances.....	G, (S).....	Lincoln
Jackson, Mayme Ethel.....	Au, (S).....	Lincoln
Jackson, Pauline Amanda.....	A 1, (S).....	Lincoln
Jackson, Ruby Gertrude.....	A 1.....	Shenandoah, Ia.
Jackson, Winnifred D.....	A 1.....	Nelson
Jacobson, Clara Matilda.....	Au.....	Lincoln

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Jaeggi, Else Freda.....	Au.....	Lincoln
James, Ella Grace.....	Au.....	Shubert
Jamison, Max Beverly.....	L 2.....	Weston
Janes, Lulu May.....	A 4.....	Lincoln
Janes, Percy Maxwell.....	A 4.....	Lincoln
Janouch, Clara.....	A 3, T 3, (S).....	Lincoln
Janouch, Karl Lawrence.....	CA 2, (S).....	Lincoln
Jeary, Clark.....	L 1.....	Lincoln
Jederman, Frederick Albert.....	A 1, (S).....	Bertrand
Jeffords, Lucy Martha.....	A 1.....	Broken Bow
Jeffrey, Bess Gertrude.....	A 3.....	Creston, Ia.
Jeffrey, Georgiana Sinclair.....	CA 3.....	Sloan, Ia.
Jelinek, Ruth Gertrude.....	A 2.....	Crete
Jenkins, Charlotte Louisa.....	A 2.....	Lincoln
Jenkins, Clara Alice.....	A 1, (S).....	Lincoln
Jenkins, Roscoe Conklin.....	E 4.....	St. Michael
Jenkins, Thomas Nicholas.....	A 2.....	O'Neill
Jennings, Floyd Everette.....	E 1.....	Fremont
Jennings, Jessie Gooddell.....	Au, (S).....	Exeter
Jennings, Orie Donalde.....	L 2.....	Edgar
Jensen, Holger Victor.....	CA 2.....	Lincoln
Jensen, John Christian.....	G.....	University Place
Jess, Helen Madelene.....	A 3, T 3.....	Plattsmouth
Jindra, Victor Hugo.....	A 1, (S).....	Wilber
Johnson, Annis Marie.....	A 2.....	West Point
Johnson, Clarence Robert.....	A 1.....	Wakefield
Johnson, Clarke Willard.....	L 3.....	Grand Island
Johnson, Dolly Marie.....	CA 2.....	Genoa
Johnson, Edla Rene.....	A 2.....	Osceola
Johnson, Edna Lora.....	A 1.....	Sloan, Ia.
Johnson, Ethel Dorothy.....	A 4, (Ex, S).....	Broken Bow
Johnson, Jeanette.....	CA 1, (S).....	Lincoln
Johnson, Joseph Vincent.....	L 2.....	Lincoln
Johnson, Julius Andrew.....	A 3.....	Norfolk
Johnson, Mabel Victoria.....	Au, (FA).....	Valley
Johnson, Marie Ellen.....	A 1.....	Broken Bow
Johnson, Mary Ethel.....	Au.....	York
Johnson, Olga Christine.....	Au.....	Holdrege
Johnson, Orville Dawson.....	M 2.....	Lincoln
Johnson, Ruby Jane.....	Au, (Ex).....	Omaha
Johnson, Rudolph Eugene.....	A 1.....	Omaha
Johnson, Ruth Emelle.....	A 1.....	Stromsburg
Johnson, Thane Boyd.....	A 3.....	Lincoln
Johnson, Virginia Voigt.....	Lu.....	Lincoln
Johnston, Paul Alfred.....	E 4.....	Red Cloud
Jones, Edward Robert.....	E 1.....	Lincoln
Jones, Elmer A.....	E 3.....	Carroll
Jones, Erma Marie.....	A 1.....	Omaha
Jones, Essie May.....	CA 2.....	Minden
Jones, Henry Albert.....	CA 1.....	Seward
Jones, Jessie Gertrude.....	A 1.....	Lincoln
Jones, Mary Belle.....	A 1.....	Hartington
Jones, Nellie Marian.....	A 4, T 4, (S).....	Normal
Jones, Orville Leroy.....	L 3.....	Neligh
Jordan, Lloyd Henry.....	L 2.....	Gordon
Jouvenat, Victor Francis.....	A 1.....	Lincoln
Judd, Myrtle Louise.....	A 3.....	Rising City
Judkins, Walter William.....	A 4.....	Grand Island
Juhl, Andrew Petersen.....	G, (S).....	Marcus, Ia.
Kadlecek, Edward Martin.....	E 1.....	Schuyler
Kallemeyn, Nettie Mildred.....	A 1.....	University Place
Kates, Jennie Mae.....	G.....	Lincoln
Kauf, Selma Luise.....	A 1.....	Hastings
Kauffman, Geraldine Alice.....	A 2.....	Hardy
Kauffman, Hortense E.....	A 3, T 3, (S).....	Hardy

Kauffman, Marguerite Olivet.....	A 1.....	Hardy
Kautz, Archie Rodkey.....	A 3.....	Lincoln
Kavan, William Edward.....	A 3, L 1.....	Omaha
Kays, Fred John.....	CA 1.....	Lincoln
Kearney, Orlando Harrison.....	E 2.....	Morrill
Keech, John McCoppin.....	E 2.....	Lincoln
Keefer, Theo Erle.....	A 1.....	South Omaha
Keeffe, James Herbert.....	E 1.....	Jackson
Keegan, John Jay.....	G.....	Alliance
Keifer, Lucy Stout.....	A 4, T 4.....	Bostwick
Keifer, Margaret Eliza.....	A 3.....	Bostwick
Keifer, Oswin.....	CA 3.....	Bostwick
Keim, Franklin David.....	CA 3.....	Davenport
Keirle, Clifford Charles.....	E 3.....	Florence
Keith, Alonzo Fred.....	L 2.....	Curtis
Keith, Charles Frank.....	A 1.....	Lincoln
Keith, Rilla May.....	CA 1.....	Lincoln
Kellar, Venia Merie.....	CAu, (S).....	Crookston
Keller, Günther Vather.....	E 1.....	Lincoln
Keller, Olive Hawley.....	A 4, T 4.....	Lincoln
Kellner, Raymond Howard.....	A 3.....	Scribner
Kellogg, Rachael Louise.....	A 3, T 3.....	Nebraska City
Kempton, Lloyd Clarence.....	CAu.....	Lincoln
Kenagy, Harry Hayes.....	G, (S).....	Milford
Kennedy, Roxy Avis.....	Au, (S).....	Lincoln
Kenyon, Karl Dennis.....	Au.....	Lincoln
Kepner, Raymond Brandt.....	A 3, M 1.....	Havelock
Kerr, Robert Henderson.....	M 2, (S).....	Lincoln
Keyes, George Cecil.....	A 1, E 1.....	York
Kidd, Dora Aldona.....	A 4, T 4.....	Beatrice
Kidd, Norma Josephine.....	A 2.....	Beatrice
Kiddoo, Guy Cabbell.....	A 4, L 2.....	South Omaha
Kieck, William Gehrt.....	A 2.....	Springfield
Kiefer, Catherine Christine.....	A 1, (FA).....	Lincoln
Killian, Pauline.....	CA 1.....	Wahoo
Kimball, Kent K.....	E 1.....	Lincoln
Kimball, Marjorie Perkins.....	A 1.....	Lincoln
Kimball, Robert Pearl.....	A 1.....	Omaha
Kimball, Ruth.....	A 3, T 3.....	Hastings
Kimmel, Wanda Jeanette.....	A 1, (THS).....	Lincoln
Kincaid, Nita Beatrice.....	A 1, (S).....	Hiawatha, Kans.
Kindig, Ethel Leta.....	CA 1.....	Holmesville
Kindig, Ira Nelson.....	CA 1.....	Holmesville
King, Austin Chubbuck, Jr.....	Au.....	Orchard
King, Dexter D.....	M 3.....	Lincoln
King, Ethel Meda.....	A 2.....	Lincoln
King, Hazelle Shirley.....	A 1.....	Sidney
Kingery, Lisle Byron.....	A 2.....	Tilden
Kinney, Harvey Smith.....	E 4.....	Lincoln
Kinney, Viva Jauneta.....	A 2, (S).....	Blue Springs
Kinsman, Ivan James.....	CA 1.....	Columbus
Kinsman, Katey Lora.....	A 4, T 4, (Ex, FA, S).....	Columbus
Kinyon, Kate Pamela Woodard.....	CA 2.....	Lincoln
Kirk, William.....	G.....	Tarkio, Mo.
Kirker, Stella Blaine.....	G, (S).....	Lincoln
Kirschner, Harold Harpster.....	Mu.....	Liberty
Kirschstein, Irene Bates.....	A 3.....	Omaha
Kittinger, Ethel Florence.....	A 1.....	Lincoln
Kittinger, Mary Alice.....	A 2.....	Lincoln
Kjeldgaard, Andreas.....	E 3.....	Brush, Colo.
Kjelson, Albert Victor.....	CA 2.....	Gothenburg
Kjelson, Astrid Althea.....	CA 3.....	Gothenburg
Kleibauer, Cleveland.....	G, (S).....	Bethany
Klein, Ernest Frederick.....	Mu.....	Lincoln
Kline, Philip.....	A 2, M 1.....	Omaha

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Klopp, Walter Charles	A 1	Omaha
Kloppel, Henry Raymond	Au.	Leigh
Kneeshaw, Gladys Stella	CA 2, (S)	Lincoln
Knepper, Kathryn Mae	A 3, T 3	Lincoln
Knight, Dorothy Eunice	CA 3	Broken Bow
Knoll, Charles Willard	A 2, (S)	Guide Rock
Knotts, Laura Rebecca	A 4, T 4	Sioux City, Ia.
Knudson, Myrtle Mildred	CA 1	Fullerton
Koch, Harold Christian	A 1	Fullerton
Koehler, Donald Anthony	CA 1	Geneva
Koehler, Helen Fidelia	A 3, T 3	Hastings
Kohn, Pauline Bune	A 4, T 4	Lincoln
Kohout, Benjamin Edward	A 1, (THS)	Lincoln
Kokjer, Thomas Edgar	CA 2	Clarks
Kolb, Della Juanita	CA 1	York
Kolls, Klindt	E 4	Grand Island
Koolen, Martinus	Au.	Lincoln
Korstian, Clarence Ferdinand	G.	Crete
Koser, Mack Irvin	E 1	Nelson
Kotlar, Frank John	M 3	Columbus
Koupal, Richard Vitus	A 1	Creighton
Krajicek, Stephen	E 3	Arlington
Kramer, Bertha Nathalia	G, (FA)	Aurora
Kramer, Herman Frederick	E 3	Lincoln
Kratz, Golden Paul	L 1	Bloomfield
Kraus, Edward Joseph	E 4	South Omaha
Kraus, Mary Veronica	CA 1, A 1	North Bend
Krause, Clyde Lauren	A 2	Albion
Krause, Harold Paul	L 2	Albion
Krause, Rose Catharine	A 3, (FA)	Schuyler
Krauss, Anna Estella	CA 1	Blue Springs
Krebs, August Charles	A 1	Friend
Krikac, Thomas Andrew	A 1	Butte
Krisl, Mary Eleanor	Au. (Ex)	Milligan
Kruse, Frank Jacob	A 2	Lincoln
Kryger, Ralph Mallory	L 3	Neligh
Kubik, Theodore	A 2	Clarkson
Kuhn, Ada Ruth	A 2	Lincoln
Kuhn, Gladys Francis	A 3, T 3	Lincoln
Kunkel, Leslie Lyman	A 2	Lincoln
Kuppinger, Herman E.	A 1	Lincoln
Kuska, Joseph Benjamin	CA 4	Ohlawa
Kyle, Henry Irving	L 1	Lincoln
Kyle, Homer Lewis	L 3	Lincoln
Lackey, Earl Emmet	G.	Wayne
Lacy, Mona Marguerette	A 1	Nora
Ladd, Della	A 4	Albion
Ladd, Sarah Avery	A 1	Lincoln
Lahnors, Thomas, Jr.	A 4, M 1, (S)	Belvidere
Lahr, Ruth Gretchen	A 1	Lincoln
Laird, Russell Bradford	CA 1	Sidney, Ia.
Lake, Lilburn B.	A 2, (S)	Lincoln
Lally, Eleanor Mary	Au. (Ex)	Millwaukee, Wis.
Lambert, James Lowell	CA 1, (AHS)	Lincoln
Lambert, Leroy Schuyler	E 4, (S)	Kearney
Lemoreaux, Rhea	A 4, T 4	Omaha
Landers, Frank Ray	Eu.	Lincoln
Landgren, Albert Vincent	E 1	Omaha
Lane, Fannie Fern	A 2	Lincoln
Langford, Earl Kemmer	Au. (S)	Omaha
Lanham, William Warren	A 1	Cozad
Lanphere, Grant Harold	Au. (S)	Gresham
Lantz, Earl William	A 4	Kearney
Lanz, John Edward	A 1	Plymouth
Lapp, Dale	G.	Nelson

Lapp, Percy Keith.....	A 1, (S).....	Syracuse
Larsen, Antonius Andrew.....	A 2, (4 yr. Pharmacy).....	Homer
Larson, Albin Victor.....	E 3.....	Arapahoe
Lathrop, Louis Arthur.....	CA 3.....	Swanton, Ohio
Latimer, Homer Barker.....	G.....	University Place
Laughlin, Joseph Wilson.....	M 4.....	Callaway
Laune, Ferris Finley.....	A 2.....	Lincoln
Lawler, John Arthur.....	L 3.....	Lincoln
Lawrence, Esther Joy.....	A 1.....	Lincoln
Lawrence, Mary Elizabeth.....	A 1.....	Lincoln
Leamer, Esther Viola.....	CA 2.....	Dakota City
Leamer, George William.....	L 2.....	Dakota City
Leaming, Charlotte Marion.....	A 3.....	Lincoln
Lee, Arnim Alvin.....	A 1.....	Central City
Lee, Charles Bopes.....	G.....	Lincoln
Lee, James Chull.....	Au.....	Chung-Ju, Korea
Lee, Jessie Alice.....	G.....	Lincoln
Lee, Kirk Charles.....	CA 1.....	Fremont
Lee, Muynng Sup.....	Eu.....	Ham-Hung, Korea
Lee, Yong Kin.....	Au.....	Ham-Hung, Korea
Leetham, May Inez.....	A 4.....	St. Paul
Lefler, Harry Harland.....	Lu.....	Elmwood
Lehew, Robert Milton, Jr.....	A 3.....	Lincoln
Lehman, Asa Margrave.....	A 4, M 2.....	Culbertson
Lehmer, Lloyd Herbert.....	A 2.....	South Omaha
Lehmer, Phillips Thain.....	A 2.....	Omaha
Lehmer, Theodore John.....	A 2.....	South Omaha
Lehr, Elmo W.....	A 2.....	Elgin
Leitch, Virginia Fugua.....	A 1.....	Lincoln
LeMasters, Cora Alice.....	A 3, T 3, (Ex, S).....	St. Paul
Leonard, Earl Renshaw.....	A 3, M 1, (S).....	Rock Valley, Ia.
Leonard, Leon Hersey.....	E 1.....	Neligh
Leonard, Seward Vern.....	L 2.....	University Place
Lerum, Lillian.....	A 3, T 3.....	Plainview
Leschinsky, Fritz Jacob.....	E 1.....	Loup City
Lester, Elda M.....	Au.....	Lincoln
Lewellen, Ethel Dorothea.....	Au.....	Lincoln
Lewinsohn, James Gordon.....	L 1.....	Lincoln
Lewis, Garland Edison.....	G, (2 yr. Pharmacy).....	Anselmo
Lewis, Gladys Albertine.....	CA 2.....	Superior
Lewis, Leland Judson.....	G, (S).....	Anselmo
Lewis, Marie Arden.....	A 1.....	Omaha
Lewis, Roxie Belle.....	A 1.....	Superior
Leyda, Catherine Camille.....	A 1.....	Falls City
Leyda, Margaret Lucille.....	A 1.....	Falls City
Lichtenwallner, Marjorie.....	A 4, T 4.....	Omaha
Lichty, Lester Clyde.....	E 4.....	Carlton
Liebendorfer, Edward Lowell.....	E 1.....	Pawnee City
Liebendorfer, Gene Forrest.....	A 1.....	Pawnee City
Liebers, Otto Hugo.....	CA 4.....	Minden
Liggett, Ethel Merle.....	CAu, (Ex).....	York
Liggett, Mary Elizabeth.....	Au, (S).....	Lincoln
Lincoln, Oren Ellsworth.....	L 2.....	Lincoln
Lindahl, Welden Albert.....	A 1, (4yr. Pharmacy).....	Oakland
Lindeberg, Ernest Ludvig.....	E 1.....	Genoa
Lindley, Edna Ruth.....	A 4, T 4.....	Omaha
Linn, John Lovejoy.....	A 3, M 1.....	Omaha
Linn, Julia Millen.....	A 1.....	Omaha
Linstrum, Arthur Chandler.....	E 2.....	Columbus
Lipman, Sol Mark.....	E 1.....	Bassett
Littlefield, Sarah Jane.....	A 2.....	Hopkinton, Ia.
Locke, William Matthew.....	A 1.....	Stanton
Lohmann, Charles Valentine.....	E 1.....	Grand Island
Lonabaugh, Harvey Ellsworth.....	Lu, A 1.....	Sheridan, Wyo.
Long, Esther Emily.....	A 2.....	Lincoln

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Long, Evangeline.....	A 4, (S).....	Lincoln
Long, Fern Zelpa.....	A 2.....	Lincoln
Long, Frank Edward.....	A 3.....	Kearney
Long, John Eugene.....	A 1.....	Buffalo, Wyo.
Long, Margaret Eleanor.....	CA 3.....	Madison
Longman, Daisy Olive.....	Au.....	Lincoln
Longman, Edward Harvey.....	G.....	Bethany
* Longman, Effie May.....	G.....	Lincoln
Lonneker, Adah Marion.....	Au, (S).....	Madison
Loomis, Gilbert Churchill.....	A 2.....	Omaha
Loomis, Howard Waldron.....	L 1.....	Fremont
Lord, Carl Jacobs.....	G.....	Randolph
Lord, Gladys Malone.....	A 1.....	Lincoln
Lord, Lauretta Ellenor.....	A 1.....	Randolph
Losey, Ray Robinson.....	M 1.....	Fremont
Lothrop, Grant.....	A 3, T 3, (S).....	Blair
Lougee, Florence M.....	Au.....	Council Bluffs, Ia.
Loveland, Charlotte Margueritte.....	A 3.....	Iowa City, Ia.
Loveland, Edward Hildreth.....	G, (S).....	Lincoln
Loveland, Lily Steele.....	Au.....	Lincoln
Lowe, Anna Wherry.....	A 1.....	Falls City
Lowe, Jessie Opal.....	G, (S).....	Fairmont
Lowenberg, Gladys.....	A 1.....	Fremont
Lowry, Beatrice Genevieve.....	A 1.....	Lincoln
Lucas, Olive Ruth.....	A 2.....	Foster
Luckey, George Paul.....	G, (S).....	Lincoln
Luckey, Henry Carl.....	G.....	Lincoln
Ludden, Arthur Jay.....	L 3.....	Surprise
Ludden, John Ernst.....	CA 4.....	Lincoln
Ludden, Kathryn Mildred.....	A 1, (FA).....	David City
Luebs, August.....	E 3.....	Wood River
Lute, Nelle Ida.....	Au, (FA).....	Paxton
Lyda, Curtis Owen.....	A 2.....	Edgemont, S. D.
Lyman, Blanche Margaret.....	G.....	Lincoln
Lyman, Richard Forsey, Jr.....	E 3.....	Port Crook
Lynch, Lindon Lamar.....	E 2.....	Lincoln
Lynde, Earl Joe.....	E 2.....	Norfolk
McAdam, Maurine Crownover.....	A 3.....	York
McAdams, Minnie Caroline.....	A 2, (S).....	Western
McAfee, Florence Ethel.....	G, (S).....	University Place
McBeath, Verna.....	A 4.....	Whiting, Ia.
McBride, Maud Mildred.....	Au.....	Lincoln
McBrien, Dean Depew.....	A 4, T 4, (S).....	Lincoln
McCarthy, Joseph Thomas.....	CA 1.....	Spalding
McCarthy, Rose Frances.....	A 1, (Ex. S).....	Wahoo
McCartney, Hazel.....	A 1.....	Thurman, Ia.
McCarty, Walter Aaron.....	A 1.....	Hastings
McClymont, Ruth Miller.....	A 1.....	Holdrege
McConnell, Frederic Charles.....	L 3.....	Omaha
McCormick, Leroy.....	L 3.....	Orosi, Calif.
McCoy, Carroll William.....	CA 1.....	Tecumseh
McCoy, Mary Evalynn.....	A 1, (S).....	Ulysses
McCrystal, Sadie Pyrtle.....	Au.....	Lincoln
McCullough, Philip Morgan.....	E 2.....	Omaha
McCullough, Roger Shaw.....	A 1.....	Omaha
McDonald, Ruth Marie.....	A 4.....	Omaha
McDonald, Wallace Brothch.....	Lu.....	Omaha
McEachern, Nell Walter.....	Au.....	Lincoln
McFadden, Gladys Louise.....	A 1.....	Clay Center
McFarland, Shirley.....	CA 1.....	Harlan, Ia.
McGee, Arthur John.....	E 2.....	Lincoln
McGee, Edward Clarke.....	E 4.....	Clearwater
McGee, Mabel Isabelle.....	A 1, (S).....	Hubbard

* Deceased.

McGee, Randall R.....	G, (S).....	Syracuse
McGerr, Claire Lenora.....	Au.....	Lincoln
McGrew, George Peery.....	A 3, T 3, (Ex. S).....	Auburn
McGurk, John Scribner.....	L 1.....	David City
McHenry, Margaret Miller.....	A 3.....	Denison, Ia.
McHugh, Robert Emmett.....	A 4.....	Waverly
McIntosh, Grace.....	A 2.....	Lincoln
McKee, Earl Cleveland.....	L 3.....	Lexington
McKee, Grace.....	CA 1, (S).....	Alma
McKeen, Helen Ruth.....	Au, (S).....	Blair
McKelvie, Flossie De Arnold.....	Au, (Ex).....	Lincoln
McKibbin, Dora Belle.....	A 2, (S).....	Lincoln
McLafferty, Joel Edward.....	E 3.....	Omaha
McLaughlin, Ver Electra.....	A 1.....	Butte
McLean, Earl.....	G.....	University Place
McMahon, Clara Marguerite.....	A 1.....	Lincoln
McMahon, Grace Ellen Marie.....	A 3, T 3.....	Lincoln
McMaster, James Lloyd.....	A 1.....	Central City
McMillan, Max Renvell.....	A 1.....	Fullerton
McMillen, Cecil.....	A 1, (4 yr. Pharmacy).....	McCook
McMillen, June Duvall.....	CA 3, (S).....	Lincoln
McMullen, William Louie.....	A 1.....	Burwell
McNabb, Clara Naomi.....	A 1, (FA, S).....	Mankato, Kans.
McNabb, Harold Sanderson.....	E 3.....	Lincoln
McNerney, Lelia Mary.....	A 2.....	Lincoln
McNerney, Louise Elizabeth.....	A 4, T 4.....	Lincoln
McPherrin, Maude Wilma.....	A 2.....	Tecumseh
McRae, Alice.....	Au, (FA, S).....	Lincoln
McReynolds, Louis Elmer.....	CA 1.....	Ashland
Macdonald, Frederick Boyer.....	A 1.....	Lincoln
Macdougall, Isola Jane.....	A 1.....	Lincoln
Madsen, Victor Walter.....	E 1.....	Lincoln
Magill, Alice Mary.....	CA 1.....	Lincoln
Magor, Louis Roland.....	L 1.....	Brownville
Maher, Nellie.....	Au, (S).....	Lincoln
Maher, Ruth Katherine.....	A 3.....	Blair
Maher, William James.....	CA 1.....	Blair
Mallat, Emma.....	A 1.....	Lincoln
Mallat, Irene.....	A 1, (FA, S).....	Lincoln
Malone, Florence.....	Au.....	Lincoln
Malone, John Jerome.....	A 1, (S).....	Madison
Malone, Lillyan May.....	Au, (S).....	Cortland
Malone, Ruth.....	A 1.....	Lincoln
Malzacher, Fannie Elizabeth.....	A 1.....	Oakdale
Mangold, Earl Harrison.....	L 1.....	Bennington
Manker, Tamzon Marie.....	Au.....	Lincoln
Mann, Olive Beulah.....	A 4, T 4.....	Chadron
Mansfield, Margaret.....	A 2.....	Lincoln
Mantor, Edna Clara.....	G.....	Lodge Pole
Mapes, Donald Durland.....	A 2.....	Norfolk
Marcellus, Byrne Campbell.....	L 2.....	Lincoln
Marcellus, Jay Dolph Donald.....	A 2.....	Lincoln
Marks, Robert Howard.....	Eu, (Ex).....	Alexandria
Markward, Herbert William.....	CA 4.....	Funk
Marohn, Beulah Juliet.....	A 2.....	Lincoln
Marohn, Roy Adolph.....	A 2.....	Lincoln
Marquis, Vance William.....	E 1.....	Osceola
Marr, Frank Sigel.....	L 1.....	Utica
Marsh, Harry Vernon.....	A 4, L 1.....	University Place
Marshall, Mabel Blanche.....	A 2.....	Arlington
Marshall, Marguerite Elizabeth.....	A 1.....	Omaha
Marshall, Roy Edgar.....	CA 4.....	Lincoln
Marshall, Thomas Leonard.....	E 2.....	Omaha
Martin, C. Alton.....	E 1.....	Broken Bow
Martin, Geraldine.....	Au, (S).....	Lincoln

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Martin, James Floyd.....	E 1.....	Tecumseh, Okla.
Martin, Leslie Edson.....	A 3. (S).....	Schuyler
Martin, Otis.....	A 2.....	Central City
Martin, Paul LeRoy.....	L 1.....	Sidney
Martz, Clyde Ollen.....	E 3.....	Lincoln
Maryott, Florence Mary.....	Au.....	Lincoln
Mason, Bessie Pearl.....	A 3, M 2.....	Beaver City
Mason, Cecil Marie.....	CA 2.....	Lincoln
Mason, Luella Kezia.....	Au.....	Beatrice
Mastin, Addie.....	A 2. (S).....	Oxford
Mastin, Guy Noble.....	I. 1.....	South Auburn
Matheny, Columbia Mae.....	A 2.....	Hubbell
Matheny, Etha Cotes.....	CA 1.....	Hubbell
Matheson, Earl Alexander.....	E 2.....	Stanton
Mathews, Robert James.....	CA 1, E 1.....	Scottsbluff
Mathewson, Louise.....	An. (S).....	Lincoln
Matson, Enor K.....	L 3.....	Newman Grove
Matteson, Helen Mary.....	A 1.....	Lincoln
Mattison, Alice Amanda.....	A 4, T 4. (S).....	Bruce, Wis.
Maudlin, Mina May.....	G. (FA).....	Ladora, Ia.
May, Albert E.....	Lu, An. (S).....	York
May, Arthur Arnold.....	A 3.....	Gothenburg
Maze, Nellie Mabel.....	A 3.....	Lincoln
Mead, John Frank.....	L 3.....	Omaha
Meadows, Virgil Edgar.....	Au.....	Lincoln
Medford, Verah Irene.....	An.....	Lincoln
Meeker, David Franklin.....	A 2.....	Imperial
Meier, Louis Francis.....	A 2. (S).....	Lincoln
Melick, Bertha Lucile.....	A 4, T 4. (S).....	Bethany
Melick, Florence Hazel.....	A 3. (S).....	Bethany
Melick, Marian Maud.....	G.....	Bethany
Meline, Agnes Sophia.....	A 4, T 4.....	Colon
Melville, James Alfred.....	A 4. (S).....	Sterling
Meradith, Madge Pauline.....	A 2.....	York
Meredith, Louise.....	A 4, T 4. (S).....	Lincoln
Meredith, Mamie.....	A 4, T 4.....	Lincoln
Merriam, Benjamin Faye Mills.....	E 2.....	Seward
Merrick, Homer Curtis.....	CA 3.....	Adams
Merrill, Mason L.....	A 1.....	Minden
Merryweather, Elmer Charles.....	E 3.....	Valley
Mesropian, Florence Nightingale.....	A 1. (S).....	Lincoln
Mesropian, Herbert Newton.....	M 1.....	Lincoln
Metcalf, Grace Eloise.....	A 1.....	Sargent
Meyer, Carl Augustus.....	A 4, M 2.....	University Place
Meyer, Earl Luther.....	L 1.....	Peru
Meyer, Fred Henry.....	E 1.....	Western
Meyer, Sidney I.....	A 1.....	Omaha
Meyers, Peter Thomas.....	CA 3.....	Hendley
Mickey, James Harold.....	A 3.....	University Place
Miles, Eva Marie.....	A 1.....	Macedonia, Ia.
Miles, Frank C.....	G.....	Lynch
Miller, Alice.....	A 3. (S).....	Lincoln
Miller, Arthur Lewis.....	A 1.....	Plainview
Miller, Charles Welch.....	CA 1, A 1.....	York
Miller, Clarence Edison.....	A 3, L 1.....	Lincoln
Miller, Don Harry.....	CA 1.....	Blair
Miller, Donald Walters.....	A 4.....	Lincoln
Miller, Edith Gertrude.....	A 1.....	St. Joseph, Mo.
Miller, Edith Margaret.....	A 2.....	Gibbon
Miller, Edna Emma.....	A 4.....	Rising City
Miller, Edna Grace.....	A 3.....	Lincoln
Miller, Effie Irene.....	A 4.....	Kearney
Miller, Eleanor Tibbets.....	G. (S).....	Lincoln
Miller, Gladys Mary.....	A 1.....	York
Miller, Glen Harold.....	A 2.....	Harlan, Ia.

Miller, Glenn Eugene.....	A 1.....	Ravenna
Miller, Harold Humphrey.....	Mu.....	Friend
Miller, Harold Pearl.....	E 3.....	Lincoln
Miller, Jay Calvin.....	Au, (S).....	Firth
Miller, Jessie Vilette.....	A 1.....	Lincoln
Miller, Julia Beatrice.....	A 1.....	Beatrice
Miller, Nellie Gilbert.....	G.....	Lincoln
Miller, Otto William.....	L 3.....	Atlantic, Ia.
Miller, Roland John.....	E 2.....	Ravenna
Miller, Sylvia Alice.....	G, (S).....	Tobias
Miller, Winfield Kurt.....	A 1.....	Lincoln
Milliken, James Dale.....	A 1.....	Fremont
Mills, Emer Lloyd.....	E 1.....	Lincoln
Mills, Emma Almira.....	Au.....	Osceola
Mills, Hugh Lorrain.....	A 2.....	Omaha
Mills, Ruth.....	A 1.....	Omaha
Miner, Walter Howard.....	Mu, A 1.....	Ravenna
Miner, Helene.....	Au.....	Lincoln
Miskell, Clara May.....	A 4.....	Lincoln
Miskovsky, Robert Joseph.....	E 1.....	Bloomfield
Mitchell, Claude William.....	G, (2 yr. Pharmacy).....	Lincoln
Mitchell, Guy Euston.....	E 1.....	Waverly
Mitchell, Helene Schwab.....	G.....	Lincoln
Mitchell, William Erskine.....	A 1.....	Council Bluffs, Ia.
Mizera, Frank Harold.....	A 4, (Ex, S).....	Morse Bluff
Mockett, Kathryn Marie.....	A 4.....	Lincoln
Moehnert, Ernest William.....	CA 1.....	Madison
Moffitt, Ina Florence.....	A 1, (S).....	Fremont
Mollin, Flora May.....	Au.....	Genoa
Monroe, Ernest Franklin.....	G, (S).....	Shelton
Monson, Alvin Otto.....	A 1.....	Osceola
Montgomery, Earl Clifton.....	A 2.....	Omaha
Montgomery, Glenn Edgerton.....	E 4, (S).....	Lincoln
Montgomery, Igerna.....	A 4, T 4.....	Polk
Montgomery, Mary Amber.....	Au.....	Firth
Moodie, Carrie Dorothy.....	A 1.....	West Point
Moomaw, Leon Austin.....	G, (Ex).....	Bayard
Moon, Charles Frank.....	M 3.....	Ashland
Moore, Calvin Turner.....	G.....	Lincoln
Moore, Charles Royal.....	Au.....	Lincoln
Moore, Lois G.....	Au.....	Lincoln
Moore, Roy Walker.....	E 4.....	Seward
Moore, Samuel W.....	G, (S).....	Hiawatha, Kans
Moore, Texa Laura.....	Au.....	Holdrege
Moore, Veda.....	A 1, (S).....	Silver City, Ia.
Morgan, Bertha Alice.....	A 4.....	Hamburg, Ia.
Morgan, Kathryn Jennie.....	Au.....	Lincoln
Morley, Bert Elsworth.....	E 4.....	St. Paul
Morning, Mildred Martha.....	A 1.....	Lincoln
Morrison, Estelle Rees.....	G.....	Lincoln
Morrison, Harold Fleming.....	M 2.....	Lincoln
Morrison, Harold Meredith.....	E 3.....	Norfolk
Morrison, Lloyd Samuel.....	A 1.....	Springfield
Morrow, Lloyd Metheny.....	A 2.....	Lincoln
Morse, Charles Kennedy.....	A 3, T 3.....	Lincoln
Morse, Harold McKinley.....	L 2.....	Clarks
Morse, Jennie Cornelia.....	A 2, (S).....	Fremont
Morse, Marjorie Esther.....	A 2.....	Lincoln
Mortimer, Agnes Ogilvie.....	Au.....	Lincoln
Mortlock, Harry Crawford.....	CA 2.....	Lincoln
Moseley, Thomas Wesley.....	G.....	Lincoln
Moseley, Virginia.....	A 1.....	Lincoln
Moser, Reuben Allyn.....	G, M 2.....	Omaha
Mossman, Gladys Eloise.....	A 2.....	Lincoln
Mossman, Merle Irene.....	A 1.....	Lincoln

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Mossman, Thirza Adaline.....	A 1.....	Madison
Mottinger, Charles Wesley.....	G, A 4, (S).....	University Place
Moyer, Earl John.....	A 1.....	Madison
Moyer, Mae Elnora.....	G, (S).....	University Place
Moyer, Torrence Calvin.....	M 3.....	Lincoln
Muehleis, Lenore Kathryn.....	A 3, (S).....	Cedar Bluffs
Mueller, Henry Frederick.....	G, (S).....	Sterling
Muffy, Harold Benton.....	A.....	University Place
Mulligan, Harold Rowe.....	A 4.....	Beatrice
Mullins, Tom Peter.....	A 1.....	Broken Bow
Munger, Arbor Day.....	A 4, M 2, (S).....	Lincoln
Munger, Ruth.....	G.....	Lincoln
Munn, George Alvin.....	A 4, L 1.....	Ord
Munneke, Harold Davenport.....	A 1.....	Omaha
Murdock, Maurine.....	A 1.....	South Omaha
Murphy, Audrey Sue.....	A 1.....	Cedar Rapids
Murphy, Edward Emmett, Jr.....	Eu.....	Leavenworth, Kans.
Murphy, Eleanor Lucile.....	CA 3, T 3.....	Homer
Murtey, Aurel May.....	A 3, T 3, (S).....	Lincoln
Murtey, Mabel.....	CA 2.....	Weeping Water
Mutz, Eunice Ella.....	CA 2.....	Lincoln
Myers, Charles Benjamin.....	CA 2.....	York
Myers, Eda Bernice.....	G, (S).....	Lincoln
Myers, Fay Nellie.....	G.....	University Place
Myers, Lottie Kate.....	Au, (Ex).....	Haigler
Myers, Orris Reid.....	A 1.....	David City
Naeve, Erma Georgiana.....	A 3.....	Denison, Ia.
Nafziger, Edward Paul.....	A 3, T 3, (S).....	Fairbury
Nay, Frank A.....	E 2.....	Ord
Neal, Charles Beebe.....	A 1.....	Kansas City, Mo.
Neal, Emma Turk.....	A 2, (S).....	Lincoln
Neal, Lulu.....	A 3, (S).....	Lincoln
Neale, Edith Louise.....	A 3, T 3.....	Fort Calhoun
Nedergaard, Nels.....	A 2.....	Lincoln
Neese, Mabel Carolyn.....	Au.....	Lincoln
Negley, Noel Ardis.....	A 4, (S).....	Ansley
Neighbors, Thomas Franklin.....	L 1.....	Bayard
Neligh, Phyllis Readinger.....	A 3, T 3.....	West Point
Nelson, Albert Leonard.....	Eu.....	Omaha
Nelson, Albert William.....	A 1.....	Lincoln
Nelson, Clara Jeanette.....	A 2, (S).....	Oakland
Nelson, Elmer Kingsholm.....	E 1.....	Sidney
Nelson, Enoch Wesley.....	CA 4.....	Lincoln
Nelson, Erma Marie.....	A 2.....	Nebraska City
Nelson, Golda Bessie.....	G, (S).....	Shenandoah, Ia.
Nelson, Henning Frithjof.....	E 1.....	Calhoun
Nelson, John Fred.....	A 1.....	Scottsbluff
Nelson, Leon Miller.....	CA 3.....	Omaha
Nelson, Minnie Gertrude.....	A 1, (S).....	Ulysses
Nelson, Nora Johanna.....	A 3, T 3.....	Omaha
Nelson, Eadie Mae.....	A 1.....	Omaha
Nelson, Sybil Catherine.....	A 1.....	Omaha
Nelson, William Albert.....	E 3.....	Brayton, Ia.
Neville, William Dennis.....	Mu.....	Fairbury
Newbrey, Lillie Fern.....	A 4.....	Emporia, Kans.
Newkirk, Lee Ross.....	L 1.....	Exeter
Newman, Cora Anna.....	G, (S).....	Lincoln
Newman, Everette Raymond.....	A 4.....	Lincoln
Newmyer, Clara Anna.....	A 2.....	Lyons
Newmyer, Clay Everett.....	CA 1.....	Lyons
Newton, Adah Lillian.....	G.....	Inavale
Nicholls, Carrol Clifford.....	E 2.....	Kenesaw
Nichols, Charles Leslie.....	G.....	Lincoln
Nichols, Theodore B.....	CA 4.....	Lincoln
Nickel, Walter Joseph.....	A 1.....	Hebron

Nickell, Ruth Medora.....	A 4.....	Beatrice
Nickey, Joseph Galen.....	CA 2.....	Kearney
Niehans, Frederick Wilhelm.....	A 3, M 1.....	McClelland, Ia.
Nielsen, Henry Peter.....	G.....	Crab Orchard
Nielson, Arthur Lawrence.....	A 1, (S).....	College View
Nigh, George Washington.....	E 3.....	Bethany
Nigh, Mabel.....	A 1, (S).....	Havelock
Niklaus, William.....	L 1.....	Lincoln
Nissen, Hanna Marie.....	G, (S).....	Aurora
Noble, Blanche Olive.....	Au, (S).....	College View
Noble, Eldon Alvin.....	E 3.....	Lincoln
Noble, Harold Miller.....	L 2.....	Lincoln
Noble, Homer Adelbert.....	CA 1.....	Lincoln
Noble, Myron Dewitt.....	CA 1.....	Lincoln
Noddings, William Clayton.....	E 1.....	Careyhurst, Wyo.
Nohavee, Fred Robert.....	E 1.....	Crete
Noll, William Clarence.....	G.....	McCool Junction
Nombalais, Florence Amelia.....	A 4, (S).....	Lincoln
Noone, John Joseph.....	L 2.....	Omaha
Nordgren, August Edward.....	A 2.....	Newman Grove
Norman, Harold William.....	A 1.....	Omaha
Norris, Ferris Waldo.....	E 1.....	Beemer
Norris, Hazel.....	A 1.....	McCook
Norris, Leon Edward.....	E 1.....	Falls City
Northrup, Louise.....	A 3, T 3.....	Omaha
Northrup, Ralph Henry.....	A 2.....	Omaha
Norton, Leland Davis.....	E 1.....	Lincoln
Noyes, Bessie.....	G, (S).....	Lincoln
Nyrop, Dora Gine.....	A 4, T 4.....	Elgin
O'Brien, Ruth.....	A 3, T 3, (S).....	Lincoln
Odell, Ruth.....	A 3, T 3.....	Omaha
Odman, Marjorie Edith.....	A 1.....	Valparaiso
Ogden, Johanna Frances.....	A 3, T 3.....	Genoa
O'Hanlon, Andrew Reed.....	L 1.....	Blair
Ohlsen, Edwin John.....	E 2.....	Loup City
O'Kief, Bernice Agatha.....	Au.....	Wood Lake
O'Kief, William Gregory.....	A 1.....	Wood Lake
Olinger, Oliver Oscar.....	CA 1.....	Tekamah
Ollis, Ethel Mary.....	CA 1, (S).....	Ord
Olmstead, Edwin.....	E 1.....	Orleans
Olsen, Ethel.....	A 2.....	Lincoln
Olson, Carl Alvin.....	A 1.....	Stromsburg
Olson, David Segard.....	CA 1.....	Genoa
Olson, Mildred Anna.....	Au, (S).....	Holdrege
O'Neill, Francis Bernard.....	E 4.....	Jackson
Oppenheimer, Herbert D.....	A 1.....	St. Joseph, Mo.
Ord, Esther Lucile.....	A 1.....	Auburn
Orlofsky, Sylvia.....	A 3, T 3.....	Lincoln
Orr, Ralph Waldo.....	A 4, (S).....	Lincoln
Orvis, Harriet.....	A 4, M 2, (S).....	Yankton, S. D.
O'Shee, Marie.....	Au.....	Lincoln
O'Sullivan, Margaret Josephine.....	A 3, (S).....	Lincoln
Ough, John Clam, Jr.....	Mu.....	Benkelman
Outcalt, Sara Catherine.....	CAu.....	Lincoln
Outhouse, Winifred Prather.....	A 3, T 3.....	Loup City
Owen, Donald Robert.....	A 1.....	Omaha
Owen, Lewis Rees.....	E 4.....	Lincoln
Owens, Ralph Harris.....	E 1, (THS).....	Cozad
Pade, Emma Madeline.....	Au, (Ex).....	Franklin
Pagels, Florence Mabel.....	A 3, T 3.....	Beatrice
Paine, Charles Kenneth.....	E 4, (S).....	Lincoln
Paine, Myron Arthur.....	A 2.....	Lyons
Painter, Lester Harlan.....	A 1.....	Lincoln
Palmer, Ella Mae.....	Au.....	Fairmont
Palmer, Lawrence John.....	CA 1.....	Genoa

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Palmer, Leon Martin.	A 1.	Lincoln
Park, Durward Belmont.	A 3, M 1, (S).	Randolph
Park, Young M.	A 4, (S).	Hastings
Parker, Lee Temple.	E 2.	Wilsonville
Parker, Mary Abigail.	A 3, (Ex. S).	Omaha
Parkinson, Robert McKee.	E 2.	Omaha
Parmelee, Alfred Edwin.	G, (S).	Lincoln
Parmelee, Harriet Meredith.	A 1.	Omaha
Parminster, Hugh Ernest.	G, (S).	Bethany
Parrish, Earle Clokey.	E 1, (THS).	Culbertson
Parrish, Edith Olive.	A 4, T 4.	Lincoln
Parrott, Stella Viola.	A 4, T 4.	Albion
Parsons, Susanne Ring.	A 3, T 3, (S).	Lincoln
Partridge, Edwin Maynard.	CA 1.	Omaha
Pascale, Henry P.	A 1.	Omaha
Paton, Anne.	A 3, T 3.	Fullerton
Patrick, Claude Bartlette.	CA 4.	Lincoln
Patterson, Belle Clarence.	Au.	Lincoln
Patterson, Harry.	A 2, (S).	Central City
Patterson, Herman Wayne.	CA 1.	Harlan, Ia.
Patton, Mildred Merle.	A 4, (S).	Lincoln
Paul, Charles Eston.	A 1.	Emerson
Paustian, Franz Henry.	E 2.	Omaha
Payton, Edith.	A 3.	Lincoln
Payton, Edna Lee.	A 1.	Lincoln
Pearse, Lillian Carrie.	CA 2.	Genoa
Pearson, Fred Reid.	CA 1, E 1, (AHS).	Lincoln
Pearson, James Thomas Morley.	E 3.	Schuyler
Peek, Helene Dresser.	A 4, (S).	St. Paul, Minn.
Peden, Frank Everitt.	CA 1.	Oakland
Peden, Howard A.	E 3.	Oakland
Peebles, Nellie Elizabeth.	CA 1.	Blair
Peery, Charles Benjamin.	A 4.	Auburn
Peery, Harriet Grey.	Au.	Auburn
Peery, Mildred Reed.	A 1.	Auburn
Pegler, Ethel Artha.	A 3, T 3.	Lincoln
Peirce, Lewis Snow.	A 4.	Kearney
Pellatz, Orville L.	L 1.	Ceresco
Pemberton, Guilford.	A 1.	Beatrice
Penney, Freeman Seth.	A 1.	Fullerton
Pepoon, Lucy.	Au, (S).	Seminole, Okla.
Percy, Otto Warren.	L 3.	Crawford
Perkins, Frank Sutfin.	A 1.	Fremont
Perkins, Harrie Elmer.	A 1.	Lincoln
Perrin, Elizabeth Jewell.	A 1.	Woodbine, Ia.
Perrin, Otto K.	A 3.	Sargent
Perrin, William Roscoe.	CA 1.	Roca
Perry, Claibourne Gordon.	L 2.	Lincoln
Persinger, Mary Endora.	G, (S).	Lincoln
Perusse, Francis Joseph.	A 4, (4 yr. Pharmacy).	Lincoln
Pestel, Emile Charles.	A 1.	Pilger
Peters, Marie.	CA 1.	Yutan
Peters, Matilda Katherine.	CAu, (THS).	Lyons
Peterson, Effie Emelea.	Au, (Ex).	Oakland
Peterson, Ella Irene.	A 1, (S).	Cedar Rapids
Peterson, Elsie Della.	A 1.	Cedar Rapids
Peterson, Oscar Theodore.	E 3.	Beatrice
Peterson, Sigrid Matilda.	A 1.	Lexington
Peterson, Thorwald Buel.	E 1.	Auburn
Pettee, Warren Russell.	E 2.	Hickman
Pettis, Edward Fitch.	CA 2.	Lincoln
Pettis, Marian Hebard.	A 3, T 3, (S).	Lincoln
Peyton, Wade Hampton.	A 2.	Lincoln
Pfrimmer, A. Blonda.	A 1.	Lucas, Ia.
Phares, Lewis Sheridan.	E 3.	Red Cloud

Philbrick, Guy Sterling.....	A 1.....	Creighton
Phillips, Bessie Florence.....	A 1.....	Lincoln
Phillips, Cyrus Grammer.....	A 4, (S).....	Lincoln
Phillips, Eva Fern.....	G, (S).....	Beatrice
Phillips, Gayle Marie.....	A 2.....	Henderson, Ia.
Phillips, Homer Carpenter.....	E 1.....	Omaha
Phillips, Madeleine Frances.....	A 2.....	Superior
Philp, William Russell.....	A 1.....	South Omaha
Pier, Harold Brockway.....	CA 3.....	Lincoln
Pier, Stanhope Reid.....	A 1.....	Lincoln
Pierce, Eva Genevieve.....	A 2, (Ex, FA, S).....	Normal
Pierce, Harriet Mae.....	Au, (S).....	Lincoln
Pierce, Helen Kathryn.....	A 2.....	Harlan, Ia.
Pierce, James Herbert.....	E 1.....	Omaha
Pierce, Orville Hugh.....	G.....	Lincoln
Pilcher, Camille Hortense.....	A 1.....	Lincoln
Pinckney, Charles Edward.....	M 3, (S).....	University Place
Piper, Lois Louise.....	A 1.....	Lyons
Piper, Mildred Olive.....	A 4, T 4.....	Lyons
Plasters, Alma Grace.....	A 3.....	Stella
Platt, Ross Adrian.....	CAu.....	Lincoln
Plehn, Wallace Gehman.....	E 4.....	Scottsbluff
Plybon, Walter.....	G.....	University Place
Poittevin, Marie Adelaide.....	CAu.....	Norden
Poland, Hazel Ione.....	Au.....	Fairbury
Polhemus, Carrie.....	A 2.....	Holdrege
Polk, Gilbert Cameron.....	E 4.....	Louisville
Polk, John Lindsay.....	A 2.....	Louisville
Pollock, Laura Mary.....	G, (S).....	Lincoln
Polsley, Lloyd William.....	E 1.....	Wahoo
Pont, Ervine Emery.....	A 4.....	Stanton
Pool, Ella B.....	Au.....	Lincoln
Pool, Eva Eugenia.....	A 3.....	Lincoln
Pool, Raymond John.....	G.....	Lincoln
Pope, Elizabeth B.....	A 3, T 3.....	Lincoln
Pope, Jessie Pearle.....	CA 4.....	McCook
Pope, Mabel Maude.....	A 4, T 4.....	Red Cloud
Pope, Mildred Rebecca.....	A 4, T 4, (S).....	Lincoln
Pope, Pearl Lucy.....	CA 3.....	Red Cloud
Pope, Ruth Margaret.....	A 1.....	Lincoln
Porter, Grace.....	CA 1.....	Lincoln
Posey, John Royal.....	CA 2.....	University Place
Poska, Rebecca Ruth.....	G.....	Lincoln
Poska, Sidney Charles.....	A 1.....	Lincoln
Posson, Rutherford Jay.....	CA 2.....	Hayes Center
Poteet, Marcus Louis.....	A 1.....	Pawnee City
Potter, Herbert McPheely.....	Lu.....	Lincoln
Powell, Ward Hughes.....	M 4.....	Overton
Powers, Hildegard Huntington.....	A 1.....	Lincoln
Pratt, Edna Crete.....	G.....	Lincoln
Pratt, Harlan Allen.....	E 4.....	Lincoln
Pratt, Laura Josephine.....	A 2.....	Lincoln
Preece, Marion Cecelia.....	A 3.....	Battle Creek
Priesner, Wilhelmina Fredericka.....	Au, (S).....	Lincoln
Priest, John Maxfield.....	L 2.....	University Place
Prince, Harold Aubrey.....	A 4, L 1.....	Grand Island
Prokes, Sylvia.....	CAu.....	Schuyler
Prokop, Rudolph Victor.....	A 1.....	Wilber
Proper, Edith Verne.....	Au.....	Nebraska City
Proper, Winona Orinda.....	Au.....	Nebraska City
Proskovec, Louis Anton.....	A 1, (S).....	Bruno
Proudfit, Alice Juliet.....	A 1.....	Lincoln
Proudfit, Juliet Alice.....	A 1.....	Lincoln
Provaznik, Hedvic Antoinette.....	A 1.....	Omaha
Puffer, Lewis Morgan.....	G, (S).....	Lincoln

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Purdy, Leonard N.....	E 3.....	Beatrice
Purinton, Vivian Josephine.....	CA 1.....	Wilcox
Putnam, Girard Porter, Jr.....	L 2.....	Lincoln
Putnam, John Jacob.....	G.....	Lincoln
Putney, Frederick Wallington.....	A 1.....	Lincoln
Putney, Lucy Boomer.....	Au, (S).....	Lincoln
Pyrtle, Emma Ruth.....	G.....	Lincoln
Quick, Nella Martha Cochrane.....	Au.....	Lincoln
Quinn, Mary Veronica.....	Au, (S).....	Jackson
Quivey, Lynn Arthur.....	Au.....	Lincoln
Racely, George Andrew.....	A 3.....	Pender
Radcliffe, Clayton Samuel.....	L 3.....	Sidney
Radebaugh, John Wesley.....	Au.....	Dunlap, Ia.
Radford, Earl Wilson.....	E 1.....	Leavenworth, Kans.
Radke, Franz Christopher.....	A 3.....	Wynot
Randall, Helen Elizabeth.....	A 2.....	Lincoln
Randall, William Leslie.....	L 3.....	Omaha
Randolph, Ruth.....	A 4.....	Omaha
Rands, Julia Frances.....	A 1, (S).....	Lincoln
Rands, Robert Delafield.....	CA 4.....	Lincoln
Range, Amelia Katharine.....	A 1.....	Lincoln
Range, Bertha Emma.....	G, (S).....	Lincoln
Rasmussen, Anton Peter.....	A 1.....	Brush, Colo.
Ratcliff, Bernice Benson.....	CAu.....	Lincoln
Ratcliff, John Anderson.....	G.....	Lincoln
Ratcliffe, Eva May.....	A 2, (S).....	Ogalalla
Rathke, Bertha.....	A 2.....	Omaha
Ray, John Edward.....	L 2.....	Geneva
Raymond, Anan Richard.....	L 3.....	Norfolk
Raymond, Dorothy.....	A 2.....	Lincoln
Raymond, Hugh.....	CA 3.....	Norfolk
Reasoner, Nathan Robert.....	CA 1.....	Hastings
Reavis, David Dorrington, Jr.....	A 3.....	Falls City
Reavis, Saran Grace.....	A 1.....	Falls City
Rector, Voyle Dixon.....	A 1.....	Omaha
Reed, Albert Alison.....	G, (S).....	Lincoln
Reed, Bertha.....	A 4.....	Peru
Reed, Edward Floyd.....	A 1, (THS).....	Milford
Reed, Gertrude.....	Au, (THS).....	Milford
Reed, Guy Euclid.....	G.....	Lincoln
Reed, Isa Dolores.....	G, (S).....	Lincoln
Reed, Merrill virgil.....	A 3.....	Lincoln
Reed, Zelpha Edna.....	A 1.....	Loup City
Reeder, Elma.....	A 1.....	Hot Springs, S. D.
Reeder, Lucile Haywood.....	CAu, (Ex).....	Columbus
Reel, John Walter.....	L 1.....	Omaha
Reel, Ray Franklin.....	A 1.....	Omaha
Rees, Harry A.....	E 1, (THS).....	Pilger
Reese, Herbert Stockton.....	A 2.....	Randolph
Reese, Sydney Ober, Jr.....	A 4, M 2, (S).....	Randolph
Reichenbach, Marie Hatfield.....	Au.....	Lincoln
Reidy, Mary Adelaide.....	A 1, (S).....	Omaha
Reimer, William.....	A 4.....	Bartley
Rein, Clifford Louis.....	A 4, L 1.....	Loup City
Reinsch, Frank Herman.....	G, (S).....	Lincoln
Reinsch, Harry Orville.....	A 1, (S).....	Crofton
Reinsch, Letta Chappell.....	A 4, (S).....	Lincoln
Remp, Martin.....	G.....	Hastings
Renfro, Merrill Pink.....	E 1.....	Peru
Reusch, Julia Elizabeth Petronella.....	Au, (FA).....	Lincoln
Reynolds, Clarence Clarke.....	Au.....	Lincoln
Rhoden, Beulah Richard Harold.....	A 1.....	Lincoln
Rhodes, Leroy.....	E 3.....	Creighton
Rice, John Benjamin.....	CA 2.....	Norfolk
Rice, Louise Bessey.....	A 3, (S).....	South Omaha

Rich, Alvin Ralph.....	E 4.....	West Point
Richards, Beulah Blanche.....	A 1.....	Lincoln
Richards, John Lowrie.....	A 2.....	Hebron
Richey, Bernice.....	A 2, (S).....	Lincoln
Richey, Harry Wyatt.....	CA 3.....	Omaha
Ricker, James Bernard.....	CA 1, E 1.....	Red Cloud
Riddell, John L.....	A 1.....	Beatrice
Riesland, Clara May.....	A 1, (S).....	Lincoln
Rigdon, Harry Prior.....	CA 1, (Ex).....	Fairbury
Riggert, Leonard Otto.....	A 2.....	Norfolk
Riggs, Joy Alma.....	CA 1.....	Lincoln
Riley, Wilber Kirk.....	A 3, M 1.....	Wisner
Rinehart, Ruth.....	A 4, T 4, (Ex, S).....	Omaha
Ringler, Frances.....	A 1.....	Lincoln
Ripson, Helen Gertrude.....	A 1.....	Lincoln
Rist, Lewis Boyd.....	A 1.....	Humboldt
Ritchie, William, Jr.....	L 2.....	Lincoln
Roach, Walter Bulkley.....	A 2.....	Lincoln
Roane, Ida Lucile.....	A 1.....	Lincoln
Robbins, Edyth Henrietta.....	A 2, (S).....	Lincoln
Robbins, Mary Ethel.....	A 4, T 4.....	Lincoln
Roberts, Anna Mabel.....	A 1.....	Alma
Roberts, Paul Henley.....	CA 3.....	Maxwell
Roberts, Pearl Edith.....	CAu.....	O'Neill
Robertson, Eva Margaret.....	CAu.....	Madison
Robertson, John Portious.....	A 1.....	Broken Bow
Robertson, Lorn Cleveland.....	CA 4.....	Lincoln
Robertson, Marie Magdalena.....	A 1.....	Plattsmouth
Robinson, Gale George.....	E 3.....	Lincoln
Robinson, Hazel Belle.....	A 2.....	Hastings
Robinson, Jay Emma.....	A 1, (FA, S).....	Fremont
Robinson, Josephine Sara.....	Au.....	Lincoln
Robinson, Lola Mabel.....	CA 1, (S).....	Stanton
Robinson, Max L.....	Eu, (THS).....	Franklin
Robinson, Raymond Larrabee.....	Au.....	Central City
Rockie, Will Allen.....	CA 3.....	Fremont
Rodgers, Clarence Edwin.....	Au, (THS).....	Osmond
Rodman, James Albert.....	L 3.....	Blair
Rogers, Bessie, Eleanor.....	A 3.....	Randolph
Rogers, David Miles.....	G, (Ex, S).....	Randolph
Rogers, Edward Alfred.....	A 2.....	Lincoln
Rogers, Elmer Murray.....	A 2.....	Lincoln
Rohde, Carl George.....	CA 3, A 3, M 1.....	Columbus
Rohrbough, Merrill Curtis.....	L 1.....	Omaha
Rokahr, Mary Ann.....	A 3, T 3.....	Lincoln
Rolofson, Pearl.....	A 3, T 3.....	Lincoln
Romer, Peter Kofod.....	A 4, (Ex, S).....	Blair
Ronne, Jesse Martin.....	E 1.....	Weeping Water
Rood, Mary Jane.....	A 1, (S).....	Omaha
Root, Alice Evelyn.....	A 4, T 4, (S).....	Lincoln
Root, Jesse Marvin.....	E 1.....	Lincoln
Rosekrans, Irene.....	A 1, (S).....	Denton
Rosekrans, Margaret Celia.....	Au, (S).....	Denton
Rosenbaum, Eva.....	A 2.....	Harvard
Rosenbaum, Harold Alvin.....	A 4, M 2.....	Harvard
Ross, Arthur J., Jr.....	A 2.....	Perry, Ia.
Ross, Clinton Thomas.....	A 3, L 1.....	Lincoln
Ross, Ralph Parson.....	A 2.....	David City
Ross, William Lytle, Jr.....	A 3, M 1.....	Omaha
Rosser, Harry Jay.....	L 3.....	Arapahoe
Rousey, Alva Linton.....	Mu.....	Grand Island
Rowe, Eva Marguerite.....	A 1, (S).....	Lincoln
Rudd, Leslie Reynolds.....	E 3.....	Ong
Rummons, Constance Juliet.....	A 1, (FA, S).....	Lincoln
Runge, Lulu Lillian.....	G.....	Madison, Wis.

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Runkel, Floyd Hott.....	CA 1.....	Lincoln
Rupert, Walter James.....	CA 4, (Ex, S).....	Lincoln
Rush, Beulah.....	Au.....	Lincoln
Rush, Harry Ernest.....	A 2.....	Rushville
Russell, Agnes Cornelia.....	A 4.....	Omaha
Russell, Anne Ingham.....	A 1.....	Omaha
Russell, Caroline Harriette.....	A 1, (FA, S).....	Odell
Rutherford, Richard Burr.....	A 1.....	Beatrice
Ruzicka, Joseph Edward.....	Mu.....	Geneva
Ryan, Bessie Frances.....	CA 1, (S).....	Wahoo
Ryan, Beth Symphrose.....	A 4, T 4, (S).....	Lincoln
Ryan, Clarke Leonard.....	E 1.....	Hastings
Ryan, Herbert Wilson.....	Au.....	Omaha
Sadilek, Walter Byron.....	A 4, L 1.....	Wilber
Safarik, Lumir Robert.....	A 3.....	Schuyler
Safford, Helen Martha.....	A 4, T 4.....	Lincoln
Sage, Earl Cuddington.....	A 3, M 1, (S).....	South Omaha
St. Martin, Mary Elizabeth.....	CAu, (S).....	Wahoo
Salisbury, Frederick Scott.....	A 2.....	Broken Bow
Salmon, Mabel Colby.....	A 4, (S).....	Omaha
Sams, Ralph M.....	L 3, A 2.....	Indianola
Samuelson, Agnes Matilda.....	A 2.....	Lincoln
Samuelson, Arvid Theodore.....	Au.....	Lincoln
Samuelson, Carl August.....	A 1.....	Shenandoah, Ia.
Samuelson, Earl Newton.....	CA 2.....	York
Samuelson, Leon William.....	L 1.....	Hildreth
Samuelson, Nannie Victoria.....	A 1.....	Lincoln
Sanborn, Clayton Clifford.....	A 1.....	Gretna
Sanborn, Verda Leota.....	CA 2, (Ex).....	Gretna
Sander, Arnold Christian.....	E 1.....	Lincoln
Sandy, Grant Life.....	CA 2.....	Gretna
Sanford, Ruth Ashton.....	A 1.....	Omaha
Sanman, Jerden Ferdinand.....	CAu.....	Diller
Sanman, Louis Frederic.....	A 3, M 1.....	Diller
Sato, Nisa Faulkner.....	E 1.....	Nagoya, Japan
Saunders, Thad E.....	L 2.....	Beatrice
Savage, Howard Anthony.....	A 2.....	Atwood, Kans.
Savage, Lottie Luella.....	A 2.....	Atwood, Kans.
Sawyer, Helen Agatha.....	A 4, T 4, (S).....	Lincoln
Sawyer, Pearl Washington.....	A 1.....	St. Joseph, Mo.
Scarborough, Ray James.....	G.....	University Place
Schacterle, William.....	Au, (Ex, S).....	Haxtum, Colo.
Schade, Arthur Lawrence.....	A 1.....	Tecumseh, Okla.
Schafer, Frank Oliver.....	E 2.....	Bruning
Schank, Harry Edward.....	E 4.....	Clarks
Schaper, William Chris.....	L 2.....	Mason City
Schaper, William Ferdinand.....	A 1.....	Havelock
Schavland, Louise.....	A 1.....	Lincoln
Schavland, Oscar.....	Au.....	Lincoln
Scheidt, Ellen Ada.....	A 3, (S).....	Friend
Scheinbeck, Isaac S.....	A 2.....	Lincoln
Schiefelbein, Ernest Simon.....	L 3.....	Ithaca
Schink, Dominic Charles.....	E 3.....	Tilden
Schissler, Paul John.....	A 1.....	Hastings
Schlater, Jacob Conrad.....	CA 1.....	Plattsmouth
Schleh, Vernon Sharrett.....	A 1.....	Omaha
Schlesinger, Melvin Henry.....	A 1.....	Lincoln
Schlueter, Raymond Theodore.....	A 3.....	Lincoln
Schmale, Freda Louise.....	A 3, T 3.....	Lincoln
Schmeeckle, Mary Matilda.....	A 1, (S).....	Eustis
Schmeling, Freda.....	A 1, (S).....	Superior
Schmidt, Arthur Charles.....	A 1.....	Madison
Schmidt, Edward John.....	A 1, (S).....	College View
Schmidt, Nelda A.....	G, (FA).....	Lincoln
Schmocker, Fred C.....	A 2.....	Columbus

Schofield, Leah.....	CA 2.....	Lincoln
Scholten, William.....	M 3.....	Lincoln
Schott, John Edward.....	A 3.....	Silver Creek
Schrank, Ernest Gustav Herman.....	A 2.....	Lincoln
Schroeder, Fred James.....	A 3.....	Eustis
Schudel, Fred Henry.....	E 1.....	Syracuse
Schulte, Cornelius John.....	CA 3.....	Lincoln
Schulte, Julia Catherine.....	A 1.....	Elgin
Schulte, Mary Anna.....	G.....	Lincoln
Schulte, Regina Bernardine.....	G.....	Lincoln
Schultz, Amanda Josephine.....	A 1.....	Elgin
Schultz, John Carsten.....	E 4.....	South Omaha
Schultz, Minnie Marie.....	A 3, T 3.....	Louisville
Schumacher, Henry Cyril.....	A 1.....	Humphrey
Schwab, Harold Jake.....	A 1.....	McCook
Schwab, Harry.....	A 2.....	Osceola
Schwab, Helen Louise.....	A 1.....	McCook
Schwake, Florence.....	A 4, T 4.....	Lincoln
Schwerin, Emma Mary.....	Au.....	Belden
Schwertley, Mary Salome.....	A 4, T 4.....	Omaha
Schwind, Faith Strother.....	CA 2.....	Lincoln
Schwind, Helen Mary.....	A 3.....	Lincoln
Scott, Aurelia Marion.....	CA 4, T 4.....	Lincoln
Scott, Clifford Bryan.....	A 1.....	Rushville
Scott, Helen Lucile.....	A 2.....	Stromsburg
Scott, Marguerite Elizabeth.....	A 1, (S).....	Omaha
Scott, Mary Elizabeth.....	A 3.....	Ashland
Scott, Melvin Roscoe.....	L 3.....	Shelby
Scott, Robert Douglas.....	G, (S).....	Lincoln
Scoville, Mildred Clare.....	A 3.....	Hartington
Scoville, Ralph John.....	L 1.....	Hartington
Scribner, Gertrude.....	A 3.....	Lincoln
Scriven, Dee Matthias.....	G, A 4, (Ex, S).....	Lincoln
Scriven, Eva Louise.....	CAu.....	Mitchell
Schriver, Clare Ethelwyn.....	A 4.....	Lincoln
Seacrest, Frederiek Snively.....	A 1.....	Lincoln
Sealey, Henry Jephtha.....	G, (S).....	Lincoln
Sears, Gulielma.....	A 1.....	Decatur
Seeger, Winifred.....	A 2.....	Glenwood, Ia.
Seemann, George McHenry.....	A 4.....	Columbus
Sexton, Ruth Avis.....	A 1, (S).....	Lincoln
Seymour, Jane Bawdin.....	A 3, (S).....	Lincoln
Shae, Willa Lucile.....	A 1.....	Raymond
Shallenberger, Larsh B.....	Au, (S).....	Stromsburg
Shanek, Rozella.....	CAu, (S).....	Odell
Shank, Edith Rose.....	A 4.....	Superior
Sharp, Marlay A.....	E 2.....	Hebron
Sharpless, Emma Idalene.....	A 3.....	Lincoln
Shaw, Arthur Le Grand.....	G, (S).....	Benton Harbor, Mich.
Shaw, Harry.....	E 3.....	Adams
Shaw, Leah Britomart.....	A 1.....	Osceola
Shaw, Marion Ansley.....	A 1.....	Osceola
Sheldon, Isadore.....	A 1.....	Nehawka
Sheldon, Mary Frances.....	A 1.....	Lincoln
Sheldon, Ruth.....	A 2.....	Omaha
Shepherd, Helen Curtiss.....	A 1.....	Lincoln
Shepherd, Tryon Mason.....	A 2.....	Lincoln
Shepherd, William.....	A 3, M 1.....	Rulo
Sherwood, Clement Miner.....	L 3.....	Red Cloud
Sherwood, Phil Sheridan.....	E 2.....	Red Cloud
Shields, Edna Pearl.....	A 4, T 4.....	Bethany
Shields, Paul Levere.....	A 1.....	South Omaha
Shimerda, Frank.....	A 1.....	Beatrice
Shinn, Lyle Bennet.....	E 1.....	Lincoln
Shirey, Clarence Raymond.....	A 3.....	Lincoln

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Shoaf, Hazel Laverne.....	Au.....	Lincoln
Shoemaker, Edward Joseph.....	A 1.....	Sidney
Shoemaker, Evalyn.....	Au. (S).....	Chapman
Shoemaker, Frank Henry.....	Au.....	Lincoln
Shomshore, Olga Agnes.....	A 1. (S).....	Fremont
Shonka, Rose Amelia.....	CAu.....	Richland
Shoop, Marie Hildegard.....	A 2.....	Lincoln
Shrum, Lillian Edith.....	A 4. T 4.....	Omaha
Shue, Harriet Hazel.....	A 3. T 3.....	Beaver City
Shultz, Henry Jacob.....	A 2.....	Stanton
Shumway, Howard Paine.....	A 4.....	Wakefield
Shumway, Percy Stevens.....	CA 1.....	Wakefield
Shutt, Roscoe E.....	CA 1.....	Lincoln
Sides, Frank Maxwell.....	A 1.....	Sioux City, Ia.
Sigworth, Dwight Chace.....	A 2.....	Stanton
Silver, Myra Esther.....	A 1. (THS. S).....	Lincoln
Simmons, Florence Gladys.....	A 2.....	McCook
Simmons, Helen Marguerite.....	A 2.....	Schuyler
Simmons, Robert Glenmore.....	L 1.....	Scottsbluff
Simms, John Hickman.....	A 2.....	Lincoln
Simpson, Merle Mae.....	A 2.....	University Place
Simpson, Otis Earl.....	A 3. T 3.....	Y.ahoo
Sinamark, Andrew.....	M 1.....	Fremont
Singer, Jacob.....	G.....	Lincoln
Sinkie, Otto August.....	A 4.....	Duncan, S. D.
Sipes, Ada Blanche.....	A 3. T 3.....	Berthany
Sisler, Rebanis.....	A 3. M 1.....	Geneva
Sisty, Mildred Louisa.....	A 4. T 4. (S).....	Lincoln
Sixta, Editha Bem.....	A 1.....	Schuyler
Sjogren, John Wilhelm.....	CA 1.....	Funk
Sjogren, Oscar Warner.....	E 2.....	Lincoln
Skinner, Lewellyn Terry.....	CA 3.....	Lincoln
Skinner, Mary Elizabeth.....	G.....	Lincoln
Slack, Leslie Eugene.....	A 1.....	Oconto
Slade, Bartlett Paine.....	L 3. A 2. (S).....	Lincoln
Slater, Doris Bessie.....	A 1.....	Lincoln
Slaughter, Walter Dane.....	A 1. (S).....	Endicott
Sleeth, Earle Campbell.....	CA 3. (S).....	Lincoln
Sloan, Charles Porter.....	CA 2.....	Geneva
Sloan, Ethel.....	A 4. (FA).....	Geneva
Sloan, Frank Blaine.....	CA 1.....	Geneva
Sloat, John Burget.....	CA 3.....	Harvard
Smart, Marie Josephine.....	A 4. T 4.....	Lincoln
Smith, Alvin C.....	E 3.....	Lyons
Smith, Bernard Guy.....	E 1.....	Wisner
Smith, Chauncey William.....	CA 3. (S).....	Laurel
Smith, Edwin Erwin.....	G. (S).....	Talmage
Smith, Esther Madeline.....	A 1.....	Lincoln
Smith, Francis Keniston.....	A 3. (S).....	Sheridan, Wyo.
Smith, Franklin Perry.....	L 2.....	Fremont
Smith, Gladys Mary.....	A 4. T 4.....	Lincoln
Smith, Grover Irwin.....	E 1.....	Blair
Smith, Helen Whorton.....	CA 1.....	Gandy
Smith, Howard Samuel.....	CA 1.....	Madison
Smith, Hugh Ellison.....	E 4.....	North Platte
Smith, Irwin Fish.....	E 1.....	North Bend
Smith, Jay L.....	G.....	Council Bluffs, Ia.
Smith, John Ralph.....	Eu.....	University Place
Smith, Nellie Rosella.....	G.....	College View
Smith, Ralph Emerson.....	A 4.....	Lexington
Smith, Raymond Albert.....	A 3.....	Lincoln
Smith, Raymond Oliver.....	CA 2.....	Blair
Smith, Sylvia Lee.....	A 4. T 4.....	Syracuse
Smith, Villiers Deaver.....	A 3. L 1.....	Beaver City
Smrha, Albert Michael.....	A 2.....	Minigan

Snyder, Kenneth McGlaughlin.....	A 2.....	Lincoln
Snyder, Leon Henry.....	A 2.....	Alma
Solomon, Julia Marguerite.....	CA 2.....	Omaha
Somers, Frederick Augustus.....	E 4.....	Weeping Water
Sonneland, Sidney Gaylord.....	A 1.....	Norfolk
Sorenson, Christian Abraham.....	A 4, L 1, (S).....	Boelus
Sorenson, Helen Brown.....	A 3.....	Omaha
Sothman, Alma.....	A 1, (S).....	Lincoln
Southwick, Philip Orin.....	A 2.....	Lincoln
Sowell, James William.....	G, (S).....	Omaha
Spacht, John Roy.....	E 4.....	Alliance
Spafford, Russell Richard.....	CA 3, (S).....	Falls City
Spalding, Mary Louisa.....	Au.....	Lincoln
Sparks, Helen.....	Au, (Ex).....	Valentine
Spaulding, Caryl.....	A 1.....	Gothenburg
Spear, Bertha Ermina.....	A 3.....	Seward
Spear, Fred Lawrence.....	L 3.....	Genoa
Spease, Perry Martin.....	G, (S).....	Laurel
Specht, Arnold Otto.....	A 1.....	Syracuse
Spier, Clarence Thompson.....	A 1.....	Omaha
Spier, Willa Waneta.....	A 4, T 4.....	Omaha
Spieth, Benjamin S.....	E 1.....	Mitchell
Spirk, Bertha Laura.....	Au.....	Wilber
Spirk, Victor Martin.....	L 1.....	Wilber
Spohn, Don Vilas.....	CA 1.....	Superior
Spooner, George Ashton.....	E 2.....	Council Bluffs, Ia.
Sprague, Annie Maxon.....	G, (S).....	Lincoln
Springer, Helen Luree.....	A 3, T 3.....	Lincoln
Sprouse, Albert David.....	G, (S).....	Lincoln
Spurrier, Jessie Emma.....	Au.....	Bethany
Squires, Ruth Madeline.....	A 3, T 3.....	Ord
Staad, Anna Clara.....	A 1.....	Sioux City, Ia.
Stanciff, Evert Lee.....	A 4.....	Saragosa, Tex.
Stanley, Kathryn Lucille.....	A 1.....	Ashland
Stanley, Lamar Rush.....	A 3, T 3.....	Aurora
Stasny, Olga Frances.....	M 4.....	Wilber
Stayner, Fay.....	A 2.....	McCook
Steckley, Regina Elizabeth.....	A 2.....	Lincoln
Steele, Guy Fox.....	CA 1.....	Douglas
Steele, Robert Edwin.....	CA 2.....	Falls City
Steenburg, Edmund Kenneth.....	A 1.....	Aurora
Steinhart, Morton.....	L 3.....	Nebraska City
Stenger, Cecilla Caroline.....	A 4, T 4.....	Columbus
Stepanek, Orin G.....	A 4.....	Crete
Stephens, Anna Roosa.....	Au.....	Lincoln
Stephens, Estella Belle.....	CA 2.....	Fremont
Stephens, Lamont Levern.....	L 2.....	Rockville
Stephens, William Logan.....	G, (S).....	Long Beach, Calif.
Stephenson, Annie Eliza.....	Au, (S).....	Lincoln
Stephenson, Bernice Ella.....	A 2.....	Wymore
Stephenson, Ruth Cleveland.....	CA 1.....	Clay Center
Sterba, Vlasta Louise.....	A 3.....	South Omaha
Sterne, Mabel Henrietta.....	CA 2.....	Grand Island
Sterrett, Walter Brooks.....	G.....	Lincoln
Stetson, Vivian Fay.....	A 1.....	Bethany
Stewart, Charles Oran.....	G.....	McCool Junction
Stewart, Cloyd La Verne.....	A 1.....	Lincoln
Stewart, Donald Warner.....	A 4, L 1.....	Lincoln
Stewart, Elvessa Anne.....	G, (S).....	Fremont
Stewart, Mary Jane Blanche.....	A 1.....	Detroit, Mich.
Stewart, Paul Hesden.....	CA 1.....	Kennard
Stibal, Thomas.....	A 2.....	Richland
Stimson, Bess Maynon.....	CA 2.....	Pawnee City
Stivers, Madeline Gladys.....	A 3.....	Lincoln
Stocking, Delia Verne.....	A 4.....	Omaha

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Stockwell, Edward Dana.....	Eu.....	Omaha
Stone, Elton Elwood.....	A 1.....	Lyons
Stone, Leah Rebecca.....	A 2.....	Lincoln
Stonecypher, Ruth.....	CA 2.....	Lincoln
Stoner, Walter Welles.....	G.....	York
Storey, Vernon Madeline.....	A 4, T 4.....	Red Cloud
Storm, Ruth.....	A 1.....	Lincoln
Stout, Richard Forbes.....	L 2.....	Lincoln
Strain, Thurl Britt.....	L 2.....	Creighton
Strejc, Bessie Mary.....	Au.....	Greenwood
Stribling, Thomas Martin.....	CA 1.....	Fremont
Strickland, Vivian Lewis.....	G, (Ex, S).....	Tecumseh
Strieter, Ottomar George.....	A 1, (THS).....	Seward
Stroemer, Marie Katherine.....	A 2, (THS).....	Alvo
Strom, Russel Rex.....	A 4.....	College View
Stryker, Franklin Hird.....	A 3.....	South Omaha
Stuby, Helen Louise.....	A 2.....	Sheridan, Wyo.
Stuckey, Jake Joseph.....	CA 1.....	Broken Bow
Stuff, Freda Naomi.....	A 3, T 3.....	Lincoln
Stuff, Frederick Ames.....	G.....	Lincoln
Stuftt, Vera Leah.....	A 1.....	Fairfield
Stults, Harry Littlefield.....	CA 3.....	Lincoln
Sturdevant, Lazelle Brantly.....	G.....	Lincoln
Sturges, George William.....	A 1.....	Lincoln
Sturm, Gertrude.....	A 3.....	Nehawka
Sturm, Victor Andrew.....	A 3.....	Nehawka
Sturmer, Mary Anna.....	A 1, (FA, S).....	Jansen
Sublette, Jeanette Estelle.....	A 3.....	Nebraska City
Suhr, William.....	Lu.....	West Side, Ia.
Sullivan, Erma.....	A 4.....	Broken Bow
Sullivan, Jean.....	G.....	Broken Bow
Sullivan, Josie M.....	Au.....	University Place
Sullivan, Theodore J.....	E 3.....	Central City
Susman, Sievers Whitehead.....	A 1.....	Omaha
Swan, Jesse Randolph.....	Lu.....	Crab Orchard
Swan, John Theodore.....	A 4, T 4.....	Lincoln
Swan, Ralph Emerson.....	G, (S).....	Clinton, Mo.
Swanson, Irene Naomi.....	A 1.....	Funk
Swanson, Oliver Milton.....	E 4.....	St. Edward
Swanson, Swan Arthur.....	E 4.....	Holdrege
Swarr, David Witmyer.....	L 1.....	Lincoln
Swatek, Clara Elizabeth.....	A 1.....	Oklahoma City, Okla.
Sweeley, Ralph Chapman.....	A 4, (S).....	Omaha
Sweeney, Mary Margaret.....	Au, (S).....	Humphrey
Sweeney, Roger.....	E 3.....	Lincoln
Swenk, Iva Beatrice.....	A 3.....	Lincoln
Swenk, Myron Harmon.....	G.....	Lincoln
Swezey, Marion Frances.....	A 4.....	Lincoln
Swift, Russell Freeman.....	L 1.....	Harlan, Ia.
Swingle, George Grenville.....	A 1.....	Lincoln
Swoboda, Agnes.....	A 1, (S, Ex).....	Wilber
Taft, Harold E.....	CA 1.....	Norfolk
Talbot, John Edgar.....	G, (S).....	Fairfield
Talbot, Robert Harris.....	A 1.....	Lincoln
Talcott, Vernon Vivaldo.....	A 2.....	Crofton
Tangeman, Cort Frederick.....	Lu.....	Gretna
Taylor, Albion Guilford.....	Au, (S).....	College View
Taylor, Burke Wilverton.....	E 1.....	Lincoln
Taylor, Earl John.....	CA 4.....	Lincoln
Taylor, Florence Ruby.....	A 1.....	Sheridan, Wyo.
Taylor, Fred Lee.....	CA 1.....	Broken Bow
Taylor, James Henry.....	A 1.....	University Place
Taylor, Lola Montez.....	G.....	College View
Taylor, Otis Ellery.....	A 2.....	Madison
Teach, Charles Elden.....	G, (S).....	University Place

Temple, Harold Lee.....	A 2.....	Lexington
Temple, Paul Nathaniel.....	A 1.....	Lexington
Tewell, James Leonard.....	L 3.....	Holdrege
Tewksbury, Edith Frances.....	A 3, T 3.....	Bethany
Tewksbury, Marie Cecil.....	A 3, T 3.....	Bethany
Thatcher, Guy Clifford.....	E 1.....	Butte
Thatcher, Roscoe Wilfred.....	G, (S).....	Pullman, Wash.
Theisen, Henry, Jr.....	A 2.....	West Point
Theobald, Carl Van Winkle.....	G, (S).....	Hastings
Therkelson, Carrie Chmelka.....	A 3, T 3, (S).....	Lincoln
Thiel, Leo Francis.....	G.....	College View
Thieroff, Margaret Wilhelmina.....	Au.....	Plattsmouth
Thomas, Berkley Allen.....	A 1.....	Nelson
Thomas, Bernice Ada.....	A 2.....	Omaha
Thomas, Clyde Samuel.....	A 3, M 1.....	Lincoln
Thomas, Fairy.....	Au.....	Lincoln
Thomas, Gladys Elizabeth.....	G.....	Lincoln
Thomas, Harold Richard.....	A 1.....	Omaha
Thomas, Harry Neilson.....	CA 2.....	Lincoln
Thomas, Helen Beck.....	CA 1.....	Tekamah
Thomas, James Lloyd.....	G.....	Lincoln
Thomas, Rowland Paul.....	L 3.....	Omaha
Thompson, Benjamin Harrison.....	CA 1.....	Lincoln
Thompson, Guy G.....	Eu, (Ex, S).....	Falls City
Thompson, Guy Landis.....	A 1, (4 yr. Pharmacy).....	West Point
Thompson, Harry Landis.....	G.....	West Point
Thompson, James Franklin.....	A 4, (S).....	Lincoln
Thompson, James Gail.....	E 2.....	Northville, S. D.
Thompson, John Clark.....	A 1.....	Sutton
Thompson, Kenneth Levi.....	A 1.....	West Point
Thompson, Lois Hannah.....	A 2.....	Northville, S. D.
Thompson, Richard Yoder.....	A 2.....	West Point
Thompson, Robert George.....	A 1.....	Omaha
Thompson, Susanna.....	CA 4, T 4, (S).....	Lincoln
Thompson, Theos Jefferson.....	A 4.....	Northville, S. D.
Thompson, Thomas Grier.....	L 3.....	Big Spring
Thompson, Will Edward Scheuck.....	L 3.....	Omaha
Thomson, Ray Thomas.....	A 2.....	Orchard
Thornton, Ray Ballou.....	A 2, (Ex, S).....	Neligh
Throop, Ellen Cornelia.....	A 1.....	University Place
Thurber, Melville Elbridge.....	Lu.....	Lincoln
Thursson, Paul Frank.....	M 2.....	University Place
Tibbets, Albert Burr.....	CA 3.....	Hastings
Tierney, Florence Loretta.....	Au, (FA, S).....	Lincoln
Tierney, Luella Rose.....	Au, (S).....	Lincoln
Timlin, Mary Gertrude.....	Au, (S).....	Hubbard
Tippet, Charles Emery.....	E 2.....	Lincoln
Tobiska, Joseph William.....	G.....	Wilber
Toland, Blanche Viola.....	Au, (S).....	Lincoln
Toney, Perry Sylvester.....	E 3.....	Omaha
Tongue, Nello Alberta.....	A 3, T 3.....	Stromburg
Tou Velle, Guy Theophilus.....	A 1, L 1.....	Lincoln
Towle, Leland Merle.....	CA 2.....	Lincoln
Towle, Maxwell Getty.....	L 3.....	Lincoln
Towne, Charles Cuyler.....	E 1.....	Wood River
Townsend, Edwin Stuart.....	A 1.....	Le Mars, Ia.
Townsend, Lewis Alonzo.....	CA 3.....	Central City
Tracy, Catherine.....	A 1, (S).....	Greeley
Tracy, Margaret Loretto.....	A 1, (S).....	Greeley
Traub, William Charles.....	L 2.....	Gordon
Travis, Oscar Le Roy.....	A 2.....	Ord
Trewet, Glenn Edward.....	E 1.....	Sidney, Ia.
Trimble, Chandler.....	L 2.....	Lincoln
Troup, Ramona.....	A 1.....	Lincoln
Troup, Wallace Burns.....	A 3.....	Omaha

ROSTER OF STUDENTS

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Trout, Linneous Robert.....	G.....	De Witt
Truax, Ralph Elbert.....	A 3, (S).....	Lincoln
Truell, Grace Knowlton.....	A 4, T 4.....	Lincoln
Trukken, Victor Hugo.....	A 1, (S).....	Newell, Ia.
Truman, Rex.....	CA 3.....	Peru
Trumbull, Fred Robert.....	CA 3.....	Minden
Tschauner, Artemus A.....	A 1.....	Osceola
Tully, Edith Elgin.....	CA 1.....	Lincoln
Tunberg, Clyde Gilbert.....	CA 1.....	Oakland
Tunks, Glen Vern.....	E 3.....	Central City
Turner, Harriet Marie.....	A 2.....	Lincoln
Turner, Leta Etta.....	CAu.....	Lincoln
Turnure, Floyd Ayers.....	L 1.....	Red Cloud
Tuthill, Frances Marion.....	A 2.....	Lincoln
Tweed, Lois Ethel.....	A 2.....	Davenport
Tyler, Ida Gertrude.....	A 4.....	Auburn
Tyler, Varro Eugene.....	A 3.....	Auburn
Tym, Norris F.....	L 1.....	Omaha
Ubl, Joseph Lumir.....	Mu.....	Prague
Undeland, Edward Andrew.....	E 1, (THS).....	Omaha
Underwood, Clinton Brooks.....	A 4, L 2.....	Omaha
Underwood, Ruth Lena.....	A 2.....	Lincoln
Unruh, George Overton.....	CA 4.....	Blair
Urbach, William Fred.....	Au, (THS).....	Lincoln
Vail, Arvilla Ada.....	A 4.....	Albion
Van Boskirk, Robert Hayden.....	A 1.....	Lincoln
Vance, Olin.....	Au, (S).....	Buffalo, Wyo.
Vance, Robert Buchanan.....	A 4.....	Crete
Van Cleave, Frank Ellsworth.....	Lu.....	Holbrook
Van Cleave, Ora Judson.....	Lu.....	Holbrook
Van Driel, Gertrude Regina.....	A 3.....	Malmo
Van Driel, Julia Helen.....	A 4.....	Malmo
Van Meter, Garrett Edwin.....	A 1.....	Lincoln
Van Middlesworth, Edith Adella.....	G.....	Peru
Vasey, Harvey Elmer.....	CA 4, (S).....	Liberty
Veghte, Gladys Adeline.....	A 3, T 3.....	Lincoln
Veith, Anna Margaret.....	A 4, T 4.....	Lincoln
Veith, Katharina Christina.....	Au.....	Lincoln
Vequist, David George.....	CA 1.....	Ray
Versaw, Paul Edward.....	E 3.....	Franklin
Virtue, Meta Vogel.....	Au.....	Lincoln
Votaw, Will Herbert.....	E 1.....	North Platte
Vrana, Edward H.....	Eu.....	Omaha
Wachter, Orlanda Mary.....	A 1.....	Lincoln
Wachter, Roland John.....	E 1.....	Lincoln
Wade, Merle Elwood.....	A 2.....	Lincoln
Wade, Nina Harris.....	G.....	Lincoln
Wagey, Pearl Alice.....	A 4, (S).....	Cambridge
Waggener, Lillita Vail.....	A 2.....	Humboldt
Wagner, Ona Ruth.....	A 2.....	Ithaca
Wagner, Ralph Patterson.....	E 3.....	Beatrice
Waite, Dorothy Olivia.....	A 2.....	Lincoln
Waite, Edgar J.....	E 1.....	Lincoln
Walford, Roy Herbert.....	L 2.....	Bayard
Walker, Earl Fiske.....	G.....	University Place
Walker, Edson Ozro.....	E 4.....	Cedar Bluffs
Walker, Florence.....	G.....	University Place
Walker, Glen Alan.....	E 4.....	Cedar Bluffs
Walker, Harold Hill.....	A 2.....	Mason City
Walker, Leon Burdette.....	A 4, (S).....	Lincoln
Walker, Louisa Viola.....	A 3, T 3.....	Cedar Bluffs
Walker, Lowell Lampert.....	L 2.....	Cedar Bluffs
Wallace, Dorothy E.....	A 1.....	Lincoln
Wallace, Helen Margaret.....	A 4, (S).....	Lincoln
Wallace, Orville.....	A 1.....	Tekamah

Walsh, Stasia.....	A 1, (S).....	Missouri Valley, Ia.
Walter, Otto Fasolt.....	L 3.....	Columbus
Walters, Denzil Burl.....	A 1.....	Culbertson
Walvoord, James Henry.....	A 1, (THS).....	Holland
Walvoord, William W.....	M 1.....	Holland
Wanner, William Ballou.....	A 1.....	Falls City
Ward, Ida Amine.....	A 3, T 3.....	Litchfield
Ward, Nellie Marguerite.....	A 4, (4 yr. Phar.), (S).....	Lincoln
Ward, Orville O.....	E 1.....	Tekamah
Ware, Arthur Hale.....	Lu, Au, (S).....	Lincoln
Warner, Ada M.....	A 1, (FA).....	Beaver Crossing
Warner, Donald Herbert.....	CA 1.....	Lincoln
Warner, Fern Lymania.....	A 1.....	Lewellen
Warner, Philip Augustus.....	E 1.....	Lincoln
Warner, Ruth Ashley.....	M 2.....	Lewellen
Warren, Elizabeth Lucretia.....	A 3.....	Ulysses
Warren, Ruth Easterday.....	CA 1.....	Fort Morgan, Colo.
Warwick, Charles William.....	G.....	Oakdale
Waters, James Alton.....	E 4.....	Elmwood
Waters, Nancy Melvina.....	A 3, T 3.....	Elmwood
Watkins, Dorothy Dale.....	A 2.....	Lincoln
Watkins, Dudley Ward.....	E 2.....	Cody, Wyo.
Watkins, Marian.....	A 1.....	Lincoln
Watson, Curry Watben.....	Au, (Ex).....	Fullerton
Watson, John Cicero, Jr.....	CA 4.....	Nebraska City
Watson, Robert Hart.....	G, (Ex).....	Wahoo
Way, Charles, Willard.....	A 2.....	Wahoo
Waybright, John E.....	E 1.....	Ashland
Wear, John William, Jr.....	A 1.....	Peru
Weatherwax, James Lloyd.....	G.....	Akron, Ohio
Weaver, John Ernst.....	G, (S).....	Lincoln
Weaver, Kenneth Horton.....	Au, (Ex, S).....	Raymond
Webb, Adin Hilton.....	A 3, M 1, (S).....	Lincoln
Webb, John Wheadon.....	CA 1.....	Tecumseh
Webber, Mabel Roena.....	CA 1.....	Orleans
Weber, Chris Oliver.....	A 1.....	Friend
Weber, Clarence Raymond.....	CA 2.....	Tecumseh
Weber, Simon.....	Au.....	Lincoln
Weber, Walter Minor.....	E 4.....	Lincoln
Webermeier, William John.....	CA 1.....	Milford
Weeks, David Parker, Jr.....	E 2.....	Lincoln
Weesner, Genevieve.....	CA 1.....	Lincoln
Weeth, Edward P.....	E 1.....	Gretna
Wegener, Karl Frederic Ernst.....	Au, (S).....	Lincoln
Weigand, Guy L.....	A 1, (THS).....	Lincoln
Weil, Gladys.....	A 2.....	Lincoln
Weinard, Frederick Francis.....	CA 1.....	Lincoln
Weisel, Flora Marie.....	Au, (S).....	Alexandria
Weiss, Walter Clayton.....	L 2.....	Hebron
Welch, Leslie Andrew.....	A 4, L 1.....	Wayne
Welden, Lelia.....	A 2.....	Lexington
Wellhausen, Bertha Gerhardine.....	A 2.....	Norfolk
Wells, Frederick Nicolls.....	A 1.....	Lincoln
Wells, Stiles Sherman.....	E 2.....	College View
Wenger, Leah Margaret.....	A 1.....	Lincoln
Wenke, Henry George.....	E 1.....	Pender
Wenstrand, William Wallace.....	L 3.....	Wahoo
Wentworth, Will.....	CA 1.....	Omaha
Wentz, Harry Maurice.....	E 1.....	Lincoln
Werner, Hugh Burdette.....	A 4, L 1.....	Hebron
Werner, Linda Romana.....	A 1.....	Lincoln
Weseen, Maurice Harley.....	A 4, T 4.....	Oakland
Wessel, Henry.....	A 4, L 1.....	Lincoln
Wessman, Addie Josephine.....	Au, (FA).....	Aurora
West, Grace Edith.....	Au.....	Lincoln

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West, John Reece.....	A 1.....	Lincoln
Westberg, Ethel Beatrice.....	A 1.....	Osceola
Wester, Eula Dolores.....	A 2, (S).....	Papillion
Westerhoff, John George W.....	Au. (Ex).....	Carleton
Western, Abbie.....	A 4, T 4.....	Villisca, Ia.
Westervelt, Alfred Edward.....	M 4.....	Omaha
Westfall, McKendree Hayes.....	Mu.....	Lincoln
Westling, Lester Leon.....	E 1.....	Fairbury
Weston, Margaret Cloyde.....	CAu. (THS).....	Hay Springs
Westover, Bernard Galen.....	L 1.....	Rushville
Westover, Raymond Paschal.....	A 2.....	Rushville
Westover, Richard Van.....	E 1, (THS).....	Lincoln
Wetting, Louis Eugene, Jr.....	A 1.....	Lincoln
Weyand, Irving Hewitt.....	E 1, (THS).....	Bellwood
Weyl, Leon W.....	CA 2.....	Trenton
Whaley, Frances Alice.....	G, (S).....	Lincoln
Wheeler, Janet Lucile.....	CA 2.....	Wymore
Wherry, James Arthur.....	A 3, L 1.....	Pawnee City
Wherry, Kenneth Spicer.....	A 3.....	Pawnee City
Whisenand, James Wilbur.....	CA 3.....	Harvard
Whisenand, Stephen Harold.....	CA 2.....	Harvard
White, Bonita.....	A 1.....	Lincoln
White, Carol Clarke.....	Au. (S).....	University Place
White, David George.....	G, (S).....	Plattsmouth
White, Helen Jeanette.....	A 1.....	South Omaha
White, Leon H.....	E 1.....	Ashland
Whiteley, Magdalene Esther.....	A 1.....	Omaha
Whitmore, Burton Canfield.....	E 1.....	Valley
Whitnah, Carrell Henry.....	A 4, E 2.....	Grand Island
Wickland, Arthur Julius.....	G, (S).....	Lincoln
Wickland, Lawrence Andrew.....	CA 2.....	Valley
Wickland, Normie Clarence.....	CA 2.....	Valley
Wickstrum, Parker Marlon.....	A 2.....	Lincoln
Wiebe, Herman Harry.....	A 4.....	Beatrice
Wiedman, Earl Vernon.....	A 1.....	McCool Junction
Wiese, Bertha Margaretha.....	A 3, T 3.....	South Omaha
Wiese, Hertha.....	Au.....	Avoca, Ia.
Wiese, Meta.....	A 3.....	Avoca, Ia.
Wiese, Otto.....	G.....	Lincoln
Wiggenjost, Agnes Ottie.....	Au. (Ex).....	Lincoln
Wiggins, Edward Ruger.....	G.....	Orfordville, Wis.
Wiggins, Ida Duffield.....	A 1.....	Lincoln
Wilcox, Clifford Franklin.....	A 1.....	Lincoln
Wilcox, Gertrude Alice.....	A 4, T 4, (S).....	Lodgepole
Wilcox, Guy Emerson.....	E 1.....	Grant
Wilcox, Marion Rebecca.....	Au. (S).....	Lincoln
Wild, Idyl Gladys.....	A 1.....	Wilber
Wildhaber, William Tell.....	A 3.....	Plymouth
Wildish, Florence Helen.....	CA 1.....	Aurora
Wiles, Guy H.....	CA 1.....	Plattsmouth
Wiley, Willard W.....	A 1, CA 1.....	York
Wilhelmsen, Emma.....	G, (S).....	St. Paul
Wilke, Charlotte.....	G, (FA).....	Lincoln
Wilkinson, Gladys Bernice.....	A 1, (THS).....	Lincoln
Will, Gladys Cornelia.....	A 1, (S).....	Glysses
Willett, Lela Marie.....	A 1, (FA).....	Belleville, Kans.
Williams, Andrew Jackson.....	CA 1.....	Fremont
Williams, Bertha Alice.....	A 2.....	Lincoln
Williams, Blanche Grace.....	A 4.....	Lincoln
Williams, Delbert.....	A 3, CA 3.....	College View
Williams, Edith Blanche.....	G, A 4, T 4, (S).....	Lincoln
Williams, Frank Dean.....	L 2.....	Lincoln
Williams, Guy Harry.....	Lu.....	Lincoln
Williams, Hattie Plum.....	G.....	Lincoln
Williams, Hugh Van Duyn.....	A 2.....	Lincoln

Williams, Lyman Tupper.....	CA 2.....	Omaha
Williams, Mildred Carnahan.....	M 3, (S).....	York
Willis, Jessie Tourney.....	Au, (S).....	Lincoln
Wills, Robert Leroy.....	A 2.....	Butte
Willsey, Franklin Reynaldo.....	CA 3, (S).....	Blair
Willsey, Rex Bishop.....	A 4.....	Tecumseh
Wilson, Alva.....	CAu, (S).....	Graceville, Minn.
Wilson, Anne Mildred.....	A 3.....	Lincoln
Wilson, Bertha Jeanette.....	CA 3, T 3.....	Raymond
Wilson, Clara Owsley.....	G, (S).....	Burwell
Wilson, Ernest Dana.....	A 4.....	Lincoln
Wilson, Everett C.....	L 1.....	Wahoo
Wilson, Florence Sue.....	A 4, (FA, S).....	Lincoln
Wilson, Frederic Louis.....	L 1.....	Stuart
Wilson, George Balch.....	E 4.....	Rushville
Wilson, Hugh Carter.....	A 2, CA 2, (S).....	Lincoln
Wilson, Ida Gillette.....	A 2.....	Lincoln
Wilson, Ina Mabel.....	A 3.....	Lincoln
Wilson, Lucie Mildred.....	A 3.....	Lincoln
Wilson, Maud Mathes.....	CA 4, (S).....	Lincoln
Wilson, May Estelle.....	CAu, (S).....	Graceville, Minn.
Wilson, Nelle Louise.....	Au, (FA).....	Lincoln
Wilson, Ralph Parks.....	L 3.....	Lincoln
Wilson, Thurman.....	E 1.....	Aurora
Wilson, Wade Angus.....	L 1.....	Lincoln
Wilson, Walter Feasel.....	A 3.....	Lincoln
Wilson, William Holloway.....	A 1.....	South Omaha
Wiltse, Mary Elizabeth.....	Au, (Ex).....	Falls City
Wimberly, Lowry Charles.....	A 1.....	Lincoln
Winsor, Etta.....	Au, (S).....	Friend
Winston, Mary Aileen.....	A 2.....	Ponca
Winstrom, John Harry.....	A 1.....	Newman Grove
Wirsig, Edith Elsie.....	Au.....	Taylor
Wirsig, Otto Allen.....	A 3, T 3.....	Taylor
Wirt, Florence Mary.....	A 1, (S).....	Lincoln
Wirt, Frederick Alfred.....	E 4.....	Cook
Wise, Leah Hazel.....	Au, (S).....	Macon, Ill.
Withers, Myra.....	A 4, (Ex, S).....	Lincoln
Withrow, Taylor Neil.....	A 1, E 1.....	Central City
Witte, Henry William.....	A 1.....	Swanton
Wittie, Ella Cetonia.....	Au, (S).....	Lincoln
Wittmann, Elisabeth Marie.....	G.....	Lincoln
Wittmann, Robert Joseph.....	CA 1, (THS).....	Lincoln
Wohlenberg, Ernst Theodore Frederick.....	G.....	Lincoln
Wohlford, Charles Jerit.....	E 3.....	Rushville
Wolcott, Vella.....	CA 2.....	Central City
Wolf, Albert Emil.....	G, (S).....	Odell
Wolford, Clair Erwin.....	E 1.....	Lincoln
Wolford, Lulu Pearl.....	CA 1, (S).....	Lincoln
Wood, Amelia Tabitha.....	A 4.....	University Place
Wood, Donald Lester.....	L 2.....	Cuates, N. Mex.
Wood, James Ralph.....	CA 4, (S).....	Omaha
Wood, Katharine Charlotte.....	Au, (Ex).....	University Place
Wood, Myrtle Marcia.....	Au, (S).....	Wabash
Wood, Orien Jerome.....	E 1.....	Ohioa
Wood, Theodore Edward.....	Eu.....	Sidney
Woodard, John Albert.....	G, (Ex).....	Havelock
Woods, Eugenia.....	Au.....	Lincoln
Woods, Ruth.....	CA 3.....	Lincoln
Woodward, James Mac.....	A 4, M 2, (S).....	Lincoln
Woodward, Joseph Larimer.....	E 2.....	Omaha
Wooster, Margaret.....	A 4, T 4.....	Silver Creek
Workman, Hallie Christine.....	A 1.....	Auburn
Worley, Carl Hemenway.....	A 4, (S).....	York
Worley, Ivan Harold.....	E 2.....	Lincoln

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Wort, Bernice L. Margaret.....	Au. (S).....	Lincoln
Wort, Julia Minot.....	G, (S).....	Lincoln
Worthley, Edna Waterman.....	A 2, (S).....	Milford
Worthley, Evans Alvah.....	G, (S).....	Milford
Wren, John James.....	CAu.....	Farnam
Wright, Alfred Lee.....	A 1.....	Beatrice
Wright, Charles Leonard.....	A 1.....	Lincoln
Wright, Florence Alice.....	A 1.....	Lincoln
Wright, Harold Bearce.....	E 4.....	Hebron
Wright Wilmer La Vern.....	E 1.....	Aurora
Wuif, Herman.....	A 1.....	Ohioa
Wyman, Frances Elizabeth.....	CA 3, T 3.....	Lincoln
Wyman, Harriett Minerva.....	A 4, T 4, (S).....	Lincoln
Wyman, Hester Letitia.....	A 1.....	Lincoln
Wyman, Louise May.....	CA 4, (S).....	Lincoln
Wynne, Annie Loverne.....	Au.....	Lincoln
Wythers, Lloyd Alexander.....	E 1.....	Geneva
Yager, Clarence Phillipp.....	A 1.....	Hastings
* Yates, Katharine Lucile.....	A 4.....	Lincoln
Yochum, Charles Lewis.....	A 4.....	Talmage
Yont, Lily.....	G, (FA).....	Lincoln
Yont, Rose.....	G, (S).....	Lincoln
Yost, Sarah Katherin.....	A 1.....	Lincoln
Young, Alexander James.....	M 2.....	Omaha
Young, Alta Violet.....	Au.....	Alliance
Young, Blaine Augustus.....	M 3.....	Malvern, Ia.
Young, Carleton Clark.....	A 1.....	Lincoln
Young, Don J.....	E 3.....	University Place
Young, Earl Shafer.....	L 2.....	Hebron
Young, Frances.....	CA 1.....	Broken Bow
Young, Horace James.....	G.....	North Bend
Young, Roy Marquis.....	E 1.....	Benson
Young, Veva Alice.....	A 1.....	Superior
Young, William Bruce.....	A 1.....	Stanton
Zeller, George W.....	A 1.....	Lincoln
Zetterman, Harry Leonard.....	E 1.....	Shickley
Zimmer, John Todd.....	G.....	Lincoln
Zimmer, Mary Virginia.....	G, (S).....	Lincoln
Zimmerman, Sam Clancy.....	A 1.....	Lincoln
Zimmerman, Wana Marie.....	CA 2.....	Lincoln
Zumwinkel, Otto Herman.....	A 2.....	Utica

* Deceased.

1912-1913

ROSTER OF STUDENTS IN THE SCHOOLS*

Agricultural High School, Fine Arts, Music, Pharmacy, Teachers College
High School and Department of University Extension.

Abbreviations

Letters indicate school and figure indicates year.

AHS--Agricultural High School; SAS--School of Agriculture, short course; FA--
School of Fine Arts; P--School of Pharmacy; THS--Teachers College High School;
Ex--University Extension; u--Unclassed.

Name	School or Department	Home Address
Abbott, Harry Earl.....	AHS.....	Tecumseh
Abbott, Irene Izalia.....	THS.....	Lincoln
Abbott, Walter.....	SAS.....	Almeria
Adams, Claire Alfred.....	AHS.....	University Place
Adams, Muriel R.....	Ex.....	Bennett
Adams, Perry Oliver.....	AHS.....	Venus
Aden, Cente Margaretha.....	AHS.....	Shelby
Adkins, Nellie Margaret.....	AHS.....	Lincoln
Aker, Parker.....	AHS.....	Harvard
Alder, T. E.....	Ex.....	Prague
Aldrich, Chester H., Jr.....	AHS.....	Lincoln
Aldrich, John.....	AHS.....	Lincoln
Alexander, Guy.....	THS.....	Lincoln
Alm, Oscar.....	THS.....	Mineola
Alt, Oswald James.....	SAS.....	Shelby
Ammon, Ben Edwards.....	SAS.....	Pony Lake
Ammon, Harold Gilbert.....	SAS.....	Pony Lake
Anderson, August.....	SAS.....	Colon
Anderson, C. A.....	Ex.....	Alliance
Anderson, C. J.....	SAS.....	St. Edward
Anderson, C. L.....	Ex.....	Oxford
Anderson, Carl Alfred.....	SAS.....	Funk
Anderson, Ephram Arthur.....	AHS.....	Newman Grove
Anderson, Harry Wallace.....	(2 yr.) P.....	Clarks
Anderson, Manual.....	THS.....	Lincoln
Anderson, Mark Frederick.....	AHS.....	Belgrade
Anderson, Nettie.....	THS.....	Lincoln
Anderson, Ralph.....	THS.....	Genoa
Anderson, Ruby B.....	FA.....	Lincoln
Anderson, Walter H.....	SAS.....	Mason City
Andrews, John Maitland.....	AHS, SAS.....	College View
Andrus, Harold G.....	SAS.....	Lincoln
Ankes, John.....	THS.....	Normal
Archard, James Albert.....	AHS.....	Wymore
Armstrong, Charles Marion.....	AHS.....	Greenwood
Armstrong, Floyd Henry.....	AHS.....	Bigelow, Kans.
Arnold, Martha May.....	AHS.....	Inavale
Arnold, Roscoe S.....	Ex.....	Benkelman
Arnot, Charles.....	Ex.....	Schuyler

* Immediately preceding this roster appear the names of students registered primarily in the colleges. No name appears on more than one roster. For definition of letters in parentheses, see first roster immediately preceding.

Ashton, Edith Mary.....	AHS.....	Lincoln
Assenmacher, Oliver Peter.....	AHS.....	Lincoln
Atchison, Glenn.....	SAs.....	Elmwood
Aufenkamp, John.....	SAs.....	Julian
Axtell, Vivian.....	FA.....	Lincoln
Bagley, Clarence O.....	AHS.....	Lincoln
Baird, Charles.....	SAs.....	Wayne
Baker, Floyd Elton.....	AHS.....	Tilden
Baker, William R.....	AHS.....	Lincoln
Barnhart, Rollin Mapes.....	AHS.....	Lincoln
Bartels, Frank August Henry.....	SAs.....	Cualco
Batty, Ralph Grant.....	(3 yr.) P.....	Hastings
Bauer, Edward.....	SAs.....	Gilead
Bauer, John A.....	SAs.....	Lincoln
Bauer, John Gabriel.....	SAs.....	Red Oak, Ia.
Bauer, Paul.....	THS.....	Lincoln
Bauer, Rosina.....	THS.....	Lincoln
Baughner, Dexter Leslie.....	AHS.....	Bucklin, Mo.
Beach, Irving Judson.....	AHS.....	McCook
Beaty, Eulalie Pearl.....	AHS.....	Lincoln
Beaver, Michael Howard.....	SAs.....	York
Bedell, Bessie C.....	Ex.....	Benson
Beemer, Ferna Marie.....	AHS.....	Lincoln
Beers, Frank R.....	Ex.....	David City
Bell, Edwin.....	THS.....	Lincoln
Bell, Lillian.....	FA, (S).....	Ashland
Bell, Victor Ray.....	AHS.....	University Place
Benesch, John Joseph.....	SAs.....	Octavia
Benham, Thomas Edwin.....	AHS.....	Lincoln
Rennison, Sam.....	AHS.....	Lincoln
Best, Neva Mary.....	Ex.....	Homer
Bever, Virgil C.....	AHS.....	Lewiston
Riba, Anton.....	AHS.....	Exeter
Ricknell, Glenn.....	AHS.....	Lincoln
Riles, William.....	AHS, SAs.....	Pender
Bishop, E. A.....	Ex.....	Lincoln
Rixby, C. Frank.....	Ex.....	Blue Hill
Blackie, Harold E.....	AHS.....	Weeping Water
Blakeslee, William Carl.....	AHS.....	Imperial
Blanchard, Floyd Orvill.....	AHS.....	Friend
Bly, Mark Warren.....	(2 yr.) P.....	Beaver City
Bock, Anna Marie.....	AHS.....	David City
Bone, Floyd William.....	AHS.....	Fairbury
Bonner, Elsie C.....	Ex.....	Sterling
Booth, Fannie J.....	AHS.....	Central City
Bovey, John Royal.....	AHS.....	Crete
Bowers, Halley.....	THS.....	Lincoln
Bowman, Hazel.....	AHS.....	Alliance
Poyd, R. C.....	SAs.....	Scottsbluff
Boyd, Warren Edward.....	AHS.....	Roseland
Brabham, Leroy.....	AHS.....	Wauneta
Brackman, Edward Frederick.....	AHS.....	Minatare
Brainard, Alma.....	THS.....	Normal
Bredehoff, Anna.....	AHS.....	Berlin
Bredehoff, Marie Dorothy.....	AHS.....	Berlin
Brethower, Orville.....	THS.....	Lincoln
Brey, William Henry.....	SAs.....	Gretna
Brich, Georgia Anna.....	AHS.....	Pender
Bricka, Philip Rea.....	AHS.....	Lincoln
Bricker, Harry Valincourt.....	AHS.....	Greenwood
Bridget, Sister M.....	Ex.....	St. Louis, Mo.
Briggs, Robert J.....	AHS.....	Fremont
Bristol, Chris Charles.....	AHS.....	Waco
Britt, Harriett Edith.....	AHS.....	Cedar Bluffs
Brix, Aage Emil.....	(2 yr.) P.....	Lexington

ROSTER OF STUDENTS

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Brooks, Francis.....	AHS.....	Lincoln
Brouse, Edgar Merl.....	AHS.....	Stratton
Brown, Ellen M.....	Ex.....	Dodge
Brown, Florence.....	FA.....	Lincoln
Brown, Idaglen.....	AHS.....	Fremont
Brown, Ora Clayton.....	AHS.....	Carleton
Brunke, Otto.....	SAs.....	Sterling
Bryson, Kate Olive.....	FA, (S).....	Adams
Buehler, Minnie.....	Ex.....	Sterling
Buettner, August William.....	AHS.....	Madison
Buford, John Matthew.....	AHS.....	Falls City
Bull, Henry Carsten.....	AHS.....	Elkhorn
Bull, John Christian.....	SAs.....	Millard
Burgess, Charles Norman.....	AHS.....	Omaha
Burke, Bessie.....	THS.....	Ten Sleep, Wyo.
Burkett, R. E.....	FA.....	Lincoln
Burkinshaw, Victor Vernon.....	SAs.....	Naper
Burr, Vorle V.....	AHS.....	North Platte
Burton, Alva Lewis.....	AHS.....	Bingham
Burton, William McKinley.....	AHS.....	Bingham
Busekist, Frederick William.....	SAs.....	Chalco
Bush, Vernon De Voe.....	AHS.....	Naponee
Bute, Mabel.....	Ex.....	Stratton
Butler, Leland.....	AHS.....	Lincoln
Butler, Frederick William.....	FA.....	Lincoln
Caldwell, Evelyn.....	FA.....	Ashland
Calhoun, Irma Irene.....	THS.....	Lincoln
Cameron, Roy.....	AHS.....	Bethany
Campbell, Alice Minerva.....	AHS.....	Lincoln
Campbell, Angus.....	Ex.....	Sterling
Canfield, Sarah.....	AHS.....	Creighton
Carder, Truman Lloyd.....	THS.....	West Lincoln
Carlson, Carl.....	AHS.....	Ceresco
Carlson, Walter Richard.....	AHS.....	Arden
Carpenter, Erwin Russell.....	AHS.....	Allen
Carr, Everett.....	SAs.....	Avoca
Carsten, Louis Henry.....	AHS.....	Cambridge
Carver, Frank Alonzo.....	AHS.....	Lincoln
Cast, Pauline.....	THS.....	Red Cloud
Cathers, J. E.....	AHS.....	Lincoln
Chamberlain, Atwood Beatrice.....	THS.....	Brownville
Chamberlain, Leon.....	AHS.....	North Platte
Chamberlain, Robert Chester.....	THS.....	Lincoln
Chapin, Donald.....	AHS.....	Pawnee City
Chase, Linus.....	AHS.....	Stanton
Chilcoat, Esther Marie.....	THS.....	Lincoln
Chittenden, Marguerite.....	AHS.....	Lincoln
Chrisman, Edna Grace.....	AHS.....	Concord
Christensen, Magnus Dale.....	AHS, SAs.....	Ceresco
Christensen, Olof Roy.....	AHS.....	Ranocroft
Churchill, Clark Roger.....	AHS.....	Prague
Cizek, Joseph Charles.....	Ex.....	Spalding
Clara, Sister.....	Ex.....	Winnetoon
Clare, Elmer.....	THS.....	Lincoln
Clark, Celoma.....	Ex.....	Wynot
Clark, Mary C.....	THS.....	Lincoln
Clark, Myrtle.....	AHS.....	North Loup
Cleary, John.....	AHS.....	Lewellen
Cochran, Byron George.....	THS.....	Lincoln
Coffman, Bessie.....	AHS.....	Broken Bow
Cole, Olive.....	THS.....	Lincoln
Collier, Phyllis.....	Ex.....	Edina, Mo.
Colombiere, Sister M.....	SAs.....	Hollenberg, Kans.
Conant, Christopher A.....	AHS.....	Seward
Conley, Frank W.....	SAs.....	Lindsey
Connelly, Edward Francis.....		

Constance, Sister M.....	Ex.....	St. Louis, Mo.
Cooley, Edward.....	SAs.....	Havelock
Corbin, Edwin Henry.....	(2 yr.) P.....	Liberty
Corby, William Arthur.....	AHS.....	Neligh
Cornils, Paul Henry.....	AHS.....	Columbus
Craig, Olive.....	THS.....	West Lincoln
Cramer, Claude Loyal.....	AHS.....	Red Cloud
Crannell, Andrew Alvin.....	AHS.....	Tekamah
Cropsey, Harry Thorburn.....	AHS.....	Lincoln
Curran, Oliver.....	THS.....	Lincoln
Currie, Clarence Hugh.....	AHS.....	Gordon
Cutshall, Owen Lemuel.....	AHS.....	University Place
Cyr, Charles Francis.....	SAs.....	Franklin
Dahlgren, Paul.....	SAs.....	Wakefield
Daily, Nellie Emma.....	FA.....	Lincoln
Dale, Charles B.....	SAs.....	Bassett
Dale, William.....	SAs.....	Bassett
Daly, Frank.....	THS.....	Lincoln
David, Russell Kirkwood.....	(2 yr.) P.....	Crofton
Davis, Archie.....	THS.....	Lincoln
Davis, Robin Walter.....	AHS.....	Lincoln
Day, Edna Belle.....	AHS.....	Superior
Day, Henry Robert.....	AHS.....	Superior
Day, Nora Belle.....	AHS.....	Cadams
Deakin, Catherine Gleave.....	AHS.....	Lincoln
Deakin, Henry Thomas.....	AHS.....	Lincoln
Deane, Cecil Frank.....	AHS.....	Valparaiso
Deeds, Ray Delbert.....	AHS.....	Stromsburg
Deffer, Bessie Mae.....	Ex.....	Fairbury
Delly, Charles S.....	SAs.....	Wisner
Delano, Herman.....	THS.....	Lincoln
Dennis, Rosa.....	FA.....	Lincoln
Densberger, Crystal.....	THS.....	Lincoln
Densmore, Leonard Darwin.....	AHS.....	Wymore
Denton, Frank Andrew.....	(2 yr.) P.....	Sterling
Derieg, Daniel.....	THS, FA.....	Davey
Derieg, Leslie.....	THS.....	Davey
Deschus, Wayne B.....	AHS.....	Edison
Detrick, Leonard.....	(2 yr.) P.....	University Place
Dickson, Fern Lula.....	AHS.....	Lincoln
Diefenderfer, Ralph Rinsis.....	SAs.....	Norfolk
Dietz, Stacy Taylor.....	AHS.....	Broken Bow
Dillard, Asher.....	SAs.....	Walthill
Dockhorn, Glenn Russell.....	AHS.....	Arcadia
Doebling, Emil Conrad.....	SAs.....	Surprise
Dorland, Enid.....	AHS.....	Bennet
Dort, Edward Nelson.....	(2 yr.) P.....	Auburn
Doyle, Anna.....	Ex.....	Greeley
Drake, Phebe A.....	Ex.....	Primrose
Dunham, Robert.....	THS.....	Normal
Dunn, Philip.....	THS.....	Lincoln
Dunning, Charles.....	SAs.....	Lincoln
Dusatko, Bertha.....	THS.....	Clarkson
Dyar, Vern Rollen.....	AHS.....	University Place
Eager, Lois.....	FA, (S).....	Lincoln
Eaton, Alma Dorcus.....	AHS.....	Lincoln
Eaton, Elizabeth.....	THS.....	Lincoln
Eaton, Lucy.....	THS.....	Lincoln
Eby, Louis Richard.....	(2 yr.) P.....	Hartington
Edinborough, Jessie.....	FA, (S).....	Lincoln
Edoff, Luke.....	SAs.....	Mead
Eigenbroadt, Heila.....	THS.....	Lincoln
Eisele, Harry.....	THS.....	Roca
Eisele, John.....	THS.....	Roca
Elfeldt, Lillian Estelle.....	AHS.....	Lincoln

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Ellis, Dora E.....	Ex.....	Council Bluffs, Ia.
Endres, Louis.....	SAs.....	Lincoln
Engleman, Oliver Milton.....	AHS.....	Grand Island
Enyeart, Thomas Ross.....	AHS.....	Hemingford
Erickson, David Ludwig.....	AHS.....	Funk
Ericson, Ruth Mildred.....	AHS.....	Lincoln
Ernst, Howe L.....	(3 yr.) P.....	Mt. Pleasant, Ia.
Essig, Cecil.....	AHS.....	Red Cloud
Etter, Orange Franklin.....	SAs.....	Niobrara
Evans, George Leslie.....	AHS.....	Ohioa
Evans, May.....	Ex.....	Sterling
Everett, Elsie.....	THS.....	Lincoln
Eversole, Merle.....	THS.....	Lincoln
Fjestone, Howard.....	AHS.....	University Place
Fahleson, Hilda.....	THS.....	Havelock
Fairhead, Joy.....	AHS.....	Merriman
Fanning, Harry Francis.....	SAs.....	Wauweta
Farran, Omer F.....	SAs.....	Lincoln
Farrell, Joseph Michael.....	SAs.....	Hyannis
Faulkner, Richard.....	THS.....	Lincoln
Fausch, Carl Nathaniel.....	AHS.....	Guide Rock
Fausch, Norma Amalie.....	AHS.....	Guide Rock
Feather, Orin Thomas.....	AHS.....	Havelock
Fecht, Albert Carl.....	SAs.....	Dalton
Fernow, Ruth.....	THS.....	Roseland
Ferrel, Claude T.....	SAs.....	Wayne
Ferris, Lisle William.....	AHS.....	Central City
Finigan, Peter Anthony.....	SAs.....	Havelock
Fishbach, Ethel Grace.....	AHS.....	Beatrice
Fisher, Charlotte Helena.....	AHS.....	Cozad
Fisher, James.....	AHS.....	Elba
Fisher, Van E.....	SAs.....	Fullerton
Fisher, Wilhelmina.....	THS.....	Lincoln
Flory, Ollie Will.....	AHS.....	Lincoln
Ford, Charles Ivan.....	SAs.....	Scottsbluff
von Forell, Ira George.....	Ex.....	Chester
Forke, Herbert Dietrich.....	AHS.....	Malcolm
Foster, Alice Lella.....	AHS.....	Lincoln
Fowler, Frank J.....	(3 yr.) P.....	Lincoln
France, James.....	Ex.....	Gothenburg
Francis, Myrtle.....	FA. (S).....	Lincoln
Francke, Edmund Fred.....	AHS.....	Bennet
Francke, Leslie Alexander.....	AHS.....	Walton
Frantz, Clarence P.....	SAs.....	Tamora
Frazeur, Leslie.....	Ex.....	Fort Crook
French, Bryan Henry.....	AHS.....	Page
French, Carl Eugen.....	Ex.....	Trenton
French, Mildred Pearl.....	AHS.....	Lincoln
Frey, Lawrence Hayes.....	AHS.....	Lincoln
From, Guy D.....	AHS.....	David City
Frost, Harold Bonnell.....	AHS.....	Lincoln
Fuerst, Louise Henrietta.....	AHS.....	Omaha
Fuller, Harry Sam.....	AHS.....	Lincoln
Fuller, Richard Hosford.....	AHS.....	Omaha
Fulton, Don.....	AHS.....	Red Cloud
Fulton, Ralph Enterline.....	SAs.....	Wymore
Furgeson, Leota.....	THS.....	Lincoln
Gaddis, Arthur.....	AHS.....	Lincoln
Gaeth, Ernest John.....	AHS.....	Schuyler
Galt, Maurice Allen.....	AHS.....	Edgar
Galt, Stuart Clark.....	AHS.....	Edgar
Galvin, Arnold.....	THS.....	Lincoln
Gardels, Ervin.....	SAs.....	Beemer
Gartner, Harry William.....	(2 yr.) P.....	Hastings
Geary, Reginald Benjamin.....	AHS.....	Inman

Gelwick, Myrtle.....	Ex.....	Oxford
Gentleman, E. C.....	SAs.....	Omaha
Gentry, Anna.....	THS.....	Lincoln
Gentry, Robert.....	THS.....	Lincoln
George, William Floyd.....	AHS.....	Bostwick
Gerard, Paul E.....	SAs.....	Weeping Water
Gerd, Arvid.....	AHS.....	Stamford
Gertsch, Gilbert.....	AHS.....	Platte Center
Gibbon, John Raymond.....	SAs.....	Monroe
Gibbs, Joseph Norman.....	AHS.....	Lincoln
Gieran, Theobald Paul.....	SAs.....	Wewela, S. D.
Gifford, Lois Mahala.....	AHS.....	Lincoln
Gill, Earl Iverson.....	AHS.....	Tekamah
Gilligan, George Ward.....	AHS.....	Lincoln
Gingrich, Albert Raymond.....	AHS.....	Aurora
Glissmann, John.....	SAs.....	Omaha
Gonzales, John Clark.....	AHS.....	Elmwood
Gooden, Emma.....	FA, (S).....	Lincoln
Goodwin, Roland H.....	AHS.....	Loup City
Gould, Charles Morton.....	AHS.....	Omaha
Gramlich, Fred William.....	AHS.....	Fort Crook
Grange, Howard James.....	AHS.....	Oasis
Green, Chris.....	THS.....	Denton
Green, Edna.....	THS.....	Denton
Greenamyre, Irene.....	THS.....	Cheney
Gregg, Robert Mansfield.....	AHS.....	Alliance
Gregory, Leslie Roscoe.....	Ex.....	Cowles
Grenier, Ernest Lissium.....	SAs.....	Lyons
Grieg, Grace Alice.....	AHS.....	St. Edward
Grimes, George E.....	Ex.....	Wood, S. D.
Grimm, Fred R.....	AHS.....	Waumeta
Guildner, Virgil Ivan.....	AHS.....	Grant
Gunn, Earl Sanderson.....	AHS.....	Pallsade
Hald, Edwin Gustifus.....	AHS.....	Lincoln
Hall, Harry Edward.....	AHS.....	Winner, S. D.
Hall, Marjory.....	AHS.....	Alvo
Hall, Otis William.....	FA, (S).....	Lincoln
Hall, Ralph.....	SAs.....	Elk Creek
Hall, Sumner.....	AHS.....	Alvo
Hanna, David Wesley.....	SAs.....	Lexington
Hanna, Lloyd Steele.....	AHS.....	Lexington
Hardin, George Evan.....	AHS.....	Cambridge
Harding, John Edward.....	AHS.....	South Omaha
Harless, Gifford Rangel.....	AHS.....	Malcolm
Harling, Clarence.....	SAs.....	Beaver Crossing
Harm, Alfred William.....	AHS.....	Bloomfield
Harper, Henry.....	THS.....	Normal
Harr, Wanda May.....	AHS.....	Ainsworth
Harrach, Rosalie.....	THS.....	Denton
Harris, Cecil Cleon.....	AHS.....	Fairbury
Harris, Ivan Ellis North.....	AHS.....	Rising City
Harris, Vance Hays.....	AHS.....	Union
Harrison, John Ernest.....	AHS.....	University Place
Harry, Evan Arthur.....	AHS.....	Ainsworth
Harvey, Harry.....	THS.....	Starr
Haskell, Laura Hazel.....	AHS.....	Arnold
Haskell, Riley Kent.....	AHS.....	Arnold
Hastings, Ray Francis.....	AHS.....	Grant
Haumont, Joseph Anthony.....	AHS.....	Elton
Havens, Burt Crosswell.....	AHS.....	Lincoln
Hayward, Alice Benjamine.....	AHS.....	Lincoln
Hayward, Harry Forrest.....	AHS.....	Roseland
Hecht, Alva Ross.....	AHS.....	Curtis
Hector, Lewis Henry.....	AHS.....	South Auburn
Heesch, John Jacob.....	SAs.....	Nebraska City

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Helkes, Eugene Vernon.....	AHS.....	Dakota City
Heine, Otto.....	SAS.....	York
Heliker, Dean H.....	SAS.....	Allen
Henry, Daniel Norwin.....	AHS.....	Lincoln
Herrick, Charles R.....	Ex.....	Indianola
Hess, Willard James.....	AHS.....	University Place
Heuermann, Bernard Benjamin.....	AHS.....	Phillips
Heyen, George H.....	SAS.....	Deshler
Higgins, Carrie Catherine.....	AHS.....	University Place
Higgins, John Clifford.....	AHS.....	Nelson
Hill, Arthur L.....	Ex.....	Aurora
Hilliard, Aby.....	FA.....	Lincoln
Hilliard, Aileen.....	FA.....	Lincoln
Hitchcock, Leslie John.....	AHS.....	Whitney
Hite, Ethel Belle.....	AHS.....	Beatrice
Hoag, Glenn Smith.....	(2 yr.) P.....	Shickley
Hoch, Eva Gern.....	AHS.....	Lincoln
Hoehner, Flora Evelyn.....	AHS.....	Lincoln
Hoehner, Robert Neff.....	AHS.....	Lincoln
Hoffman, William Fred.....	AHS.....	University Place
Holding, Tom Lawrence.....	AHS.....	Whitney
Hollingworth, Ethel.....	THS.....	Lincoln
Holyoke, Robert.....	AHS.....	Lincoln
Horacek, Joseph Frank.....	SAS.....	Belgrade
Horacek, Ralph James.....	AHS.....	Belgrade
Hornby, H. B.....	SAS.....	Johnstown
Householder, Fred Bryan.....	AHS.....	Bladen
Howard, Marene Eliza Platz.....	(2 yr.) P.....	Lincoln
Howard, Alice May Frost.....	FA.....	Lincoln
Howard, Potter Pitts.....	(2 yr.) P.....	Lincoln
Hoy, Frances.....	THS.....	Lincoln
Hubbard, J. L.....	SAS.....	Fairbury
Huchel, Charles Ross.....	SAS.....	Riverton
Hudson, Eleanor.....	THS.....	Lincoln
Hudson, Josie.....	THS.....	Roca
Hudson, Lucile.....	THS.....	Lincoln
Hueffle, Max.....	THS.....	Eustis
Hughes, Frank De Loss.....	Ex.....	Beatrice
Hughes, Frank Thomas.....	AHS.....	Battle Creek
Huhn, Arnold Conrad.....	SAS.....	Schuyler
Hull, Lyle F.....	AHS.....	Gordon
Hultquist, Eugene Harold.....	AHS.....	Oakland
Hunt, Oliver Leon.....	AHS.....	Crab Orchard
Hunter, Eunice.....	AHS.....	Lincoln
Hunter, Richard Eugene.....	AHS.....	Lincoln
Huntington, Merle William.....	(2 yr.) P.....	Liberty
Hupp, Ferris Benjamin.....	AHS. SAS.....	Lebanon
Huston, Walter Lee.....	AHS.....	Geneva
Hutton, Hugh.....	FA. (S).....	Lincoln
Ihm, Joseph M.....	AHS.....	Omaha
Inbody, Roy M.....	Ex.....	Julesburg, Colo.
Ireland, W. B.....	Ex.....	Ansley
Irwin, Allen Robert.....	(3 yr.) P.....	Genoa
Ives, Glade.....	THS.....	Lincoln
Jackson, Charles Wendell.....	AHS.....	Lincoln
Jackson, George Louis.....	AHS.....	Litchfield
Jackson, Wilma Kathleen.....	AHS.....	Lincoln
Jacobsen, Louis.....	SAS.....	Farwell
Jacobson, Paul.....	AHS.....	Louisville
Jagels, Edward George.....	SAS.....	Davenport
Jay, Ross Henry.....	AHS.....	Nebraska City
Jenkins, Carroll Caraway.....	AHS.....	Lincoln
Jerman, Slav Andrew.....	SAS.....	Spencer
Jespersen, Lawrence.....	AHS.....	Blair
Jewell, Susan Grace.....	Ex. (S).....	Tabor, Ia.

Joerger, Arthur Valentine.....	AHS.....	Lincoln
Johansen, Rasmus Gordon.....	AHS.....	Laurel
Johnson, Cleman Blair.....	SAs.....	Laurel
Johnson, Edith Frances.....	AHS.....	Lincoln
Johnson, Ellis H.....	AHS.....	Wakefield
Johnson, Elvin Malcolm.....	SAs.....	Wayne
Johnson, Frankun.....	Ex, (S).....	Omaha
Johnson, Herbert.....	SAs.....	Wayne
Johnson, Oliver.....	SAs.....	Lyons
Johnson, Oscar Carl.....	SAs.....	Hershey
Johnson, Ted Alvin.....	AHS.....	Lyons
Johnson, Verna Christina.....	AHS.....	Stanton
Johnston, Olive.....	THS.....	Lincoln
Jones, Bryan Eva.....	AHS.....	Wynot
Jones, Harold Wilfred.....	SAs.....	Hordville
Jones, L. C.....	SAs.....	Giltner
Jones, Merle.....	SAs.....	Emerson
Jorgenson, Carle A.....	AHS.....	Curtis
Kaempfer, Hubert.....	THS.....	Rising City
Kaiser, Lillian Minnie.....	AHS.....	Preston
Kavan, Albert Clifford.....	AHS.....	Lincoln
Kavan, Marie Georgia.....	AHS.....	Linwood
Kavan, Ruby Alta.....	AHS.....	Lincoln
Kean, Verna.....	THS.....	Havelock
Keebaugh, Clyde Albert.....	(2 yr.) P.....	Mitchell
Kelley, Fred.....	AHS.....	Nora
Kennedy, Glen.....	THS.....	Lincoln
Kennedy, Orion Allen.....	AHS.....	Omaha
Killen, Edgar.....	THS.....	Lincoln
Kimball, Curtis.....	THS.....	Lincoln
Kindig, Corrie Frederick.....	AHS.....	Doniphan
King, Barney Hershel.....	AHS.....	Seward
Kinney, Albert Edward.....	AHS.....	Elgin
Kinney, Floyd E.....	AHS.....	Wymore
Kinney, Ray H.....	AHS.....	Elgin
Kinnier, Leland William.....	SAs.....	Spalding
Knapp, Raymond.....	AHS.....	Cedar Bluffs
Knight, Vivian.....	THS.....	Lincoln
Knoll, Ida B.....	Ex.....	Madison
Knudsen, Walter John.....	AHS.....	Omaha
Koch, Frank Jacob.....	AHS, SAs.....	Hershey
Koerner, Viola Lina.....	AHS.....	Lincoln
Koester, Anna Christine.....	AHS.....	Scribner
Koester, Fred John Henry.....	AHS.....	Weeping Water
Koester, Sophia Dorothea.....	AHS.....	Weeping Water
Kohler, Frank Morrison.....	AHS.....	Geneva
Kotas, Adolph.....	Ex.....	Milligan
Kouba, Emma.....	Ex.....	Verdigre
Kovanda, Rudolph A.....	(3 yr.) P.....	Table Rock
Krebs, Byron J.....	AHS.....	Scotia
Kreinert, Joseph.....	SAs.....	West Point
Krueger, Alfred William.....	AHS.....	Steinauer
Kruse, Edith Lillian.....	FA.....	Lincoln
Kuehl, John Chris.....	SAs.....	Benson
Kyhn, Viggo.....	SAs.....	Farwell
Ladd, Olive.....	FA, (S).....	Lincoln
Lambertson, Elizabeth.....	FA, (S).....	Lincoln
Lamphere, Dave John.....	THS.....	Lincoln
Lamphere, Sherman.....	THS.....	Gresham
Lancaster, Frank Horace.....	AHS.....	Waco
Larson, Frances.....	AHS.....	St. Paul
Larsen, Ruby P.....	Ex.....	Curtis
Larson, Frank William.....	SAs.....	Genoa
Larson, Frederick George.....	(2 yr.) P.....	Harrison
Larson, Raymond John.....	AHS.....	Normal

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Lathrop, Verna.....	Ex.....	Nebraska City
Latta, William Theodore.....	AHS.....	Oasis
Lauridsen, Petra.....	AHS.....	Mason City
Lawler, Esther.....	AHS.....	Lincoln
Lee, Gladys.....	THS.....	Lincoln
Leech, Don R.....	Ex.....	Ansley
Lehmkuhl, Lloyd Henry.....	AHS.....	Weston
Le May, Myrtle.....	THS.....	Denton
Leonard, Ernest.....	SAs.....	Fairbury
Leshner, George H.....	SAs.....	O'Neill
Lessmen, Paul.....	SAs.....	Wakefield
Lewis, John W.....	AHS.....	Sheridan, Wyo.
Lichtensteiger, Faye.....	THS.....	Lincoln
Liebers, Anna Ottilia.....	AHS.....	Minden
Liebers, Carl Ludwig.....	AHS.....	Minden
Liebers, Frederick August.....	AHS.....	Minden
Lindburg, Ruth.....	AHS.....	Polk
Liston, Clarence L.....	AHS.....	Wallace
Lockmon, Carl E.....	Ex.....	Rushville
Loghry, Florence.....	Ex.....	Inland
Look, Anna.....	THS.....	Lincoln
Loseke, Ernst Walter.....	AHS.....	Columbus
Loughridge, Olive.....	AHS.....	Lincoln
Lowrey, Wilmer Wilson.....	SAs.....	Dunbar
Lund, Archie.....	SAs.....	Gresham
Lundeen, Earnest Warren.....	Ex.....	Hildreth
Luther, Eleanor.....	SAs.....	Hooper
Luther, Howard Martin.....	SAs.....	Hooper
Lutz, Ormond Ray.....	FA.....	Arcadia
McBride, Sam K.....	AHS.....	Buffalo, Wyo.
McBride, Florence Beryl.....	THS.....	Lincoln
McClellan, Hazel.....	AHS.....	Lincoln
McCole, Ambrose Cornelius.....	AHS.....	Tilden
McConnell, Abigail Mary.....	AHS.....	St. Paul
McCue, Beulah.....	THS.....	Roseland
McDivitt, Roma.....	THS.....	Lincoln
McLain, Grace Norris.....	FA, Ex.....	University Place
McNamara, Mary.....	Ex.....	Omaha
Maag, Harvey.....	SAs.....	Nebraska City
Mailander, Anton.....	AHS.....	Spalding
Mailander, Judith Julia.....	AHS.....	Spalding
Mailander, Mollie Clara.....	AHS.....	Spalding
Maloy, Madge.....	AHS.....	Omaha
Maloy, Mayme.....	AHS.....	Omaha
Mammen, Fred Edward.....	AHS.....	McClelland, Ia.
Manke, Carl.....	THS.....	Malcolm
Mann, Annabell.....	THS.....	Malcolm
Mapes, Carroll De Witt.....	AHS.....	Lincoln
Maple, Florence E.....	Ex.....	Richland
Margaret, Sister.....	Ex. (S).....	Hastings
Mark, Arne.....	AHS.....	Kenilworth, Ill.
Marquardt, Henry William.....	SAs.....	Norfolk
Marr, Ray.....	SAs.....	Utica
Marshall, George Andrew.....	Ex.....	Stratton
Marshall, Ulysses Alvin.....	Ex.....	Gothenburg
Marshall, Victor Vernon.....	AHS.....	Arlington
Marshall, Wilber Benjamin.....	AHS.....	Lincoln
Martin, Anna.....	Ex. (S).....	Nebraska City
Mary, Walter.....	AHS.....	Oconto
Mason, John William.....	AHS.....	Ord
Mason, Raymond.....	SAs.....	Hampton
Mattock, Earl.....	AHS.....	Bladen
Mawe, Vesta.....	THS.....	Lincoln
May, Ernest Henry.....	SAs.....	Bennet
Meese, Charles Ogle.....	AHS.....	Ithaca

Meese, Dorothy Frances.....	AHS.....	University Place
Megee, Bertha.....	THS.....	Lincoln
Mellberg, Fred Axel.....	SAs.....	Newman Grove
Meyers, Ruth.....	THS.....	West Lincoln
Mieth, Otto Herbert.....	AHS.....	Cairo
Miller, Emil Edward.....	SAs.....	Wakefield
Miller, Joe Jay.....	AHS.....	Milford
Miller, Leroy Leland.....	AHS.....	Lyons
Miller, Thomas Fisher, Jr.....	Ex.....	Ft. Calhoun
Mills, Mary.....	THS.....	College View
Miska, Wesley.....	AHS, SAs.....	Ord
Mockett, Florence.....	THS.....	Lincoln
Mohr, William Jennings.....	Ex.....	Culbertson
Monette, Raymond Allemand.....	AHS.....	Stella
Monnich, Charlotte Margaret Martha.....	AHS.....	Hooper
Monnich, Delia Amanda.....	AHS.....	Hooper
Montgomery, Amber.....	THS.....	Firth
Montgomery, Philip Henry.....	AHS.....	Elwood
Moomey, Norman.....	SAs.....	Gresham
Morris, Ruth Amy.....	AHS.....	University Place
Morrison, Clinton.....	SAs.....	Scottsbluff
Morrison, Richard.....	THS.....	Lincoln
Mortensen, James, Jr.....	AHS.....	Lincoln
Mortensen, James Weaver.....	(2 yr.) P.....	Valparaiso
Moser, Elsie.....	FA.....	Lincoln
Mueller, Emil.....	SAs.....	Columbus
Mulhair, Eddie Vold.....	AHS.....	Scottville
Munson, Leta.....	THS.....	Lincoln
Murphy, Thomas Henry.....	AHS.....	Greeley
Murray, Charles Arthur.....	AHS.....	Elwood
Naess, Peter O.....	THS.....	College View
Neal, George Henry.....	THS.....	Lincoln
Neal, Orville.....	Ex.....	Clearwater
Nebuda, Vlasta.....	AHS.....	West Point
Neff, Audobon.....	Ex.....	Gretna
Nelson, Albert.....	SAs.....	Cowles
Nelson, Joseph Clarence.....	AHS.....	Oakland
Nelson, Martin.....	SAs.....	Fremont
Nelson, Oscar Edward.....	SAs.....	Central City
Nicholas, Alvah J.....	AHS.....	St. Paul
Nicholas, Evelyn Laurretta.....	AHS.....	Stanton
Nicholas, Harry.....	AHS.....	Stanton
Nicholas, Vern Bryan.....	AHS.....	St. Paul
Nider, Claude Clarence.....	AHS.....	Jansen
Niedecken, Anthony.....	SAs.....	Rulo
Nielsen, Ole.....	SAs.....	Exeter
Nieter, John.....	SAs.....	Carns
Noonan, James Martin.....	SAs.....	Humphrey
Noonan, John Patrick.....	SAs.....	Humphrey
Nordstrom, Ellen.....	THS.....	Havelock
Nordstrom, Esther.....	THS.....	Havelock
Norris, John William.....	SAs.....	Avoca
Norton, Olive Elvira.....	AHS.....	Lincoln
Novak, Harry.....	SAs.....	Morse Bluffs
Novotny, Stephena Stella.....	AHS.....	Clarkson
O'Bannon, Fred.....	SAs.....	Seward
Oehlerking, Albert.....	SAs.....	Elmwood
O'Halloran, Emmet.....	SAs.....	Havelock
Ohlheiser, George.....	THS.....	Lincoln
Ohlheiser, Paul.....	AHS.....	Lincoln
Ohmstede, Lela J.....	Ex.....	Harvard
Ollis, Ruth Eleanor.....	AHS.....	Ord
Olson, C. Oscar.....	Ex.....	Shelby
Orr, Kate Ethel.....	FA.....	Lincoln
Osborn, Barbara Christine.....	(2 yr.) P.....	Lincoln

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Osborn, James Edward.....	AHS.....	Council Bluffs, Ia.
Osborn, Mamie E.....	AHS.....	Weston, Ia.
Oss, John.....	SAS.....	Newnan Grove
Otis, Louise.....	AHS.....	Lincoln
Otte, George Henry.....	SAS.....	Chalco
Otterman, Carl G.....	SAS.....	Pender
Parker, Faye Louise.....	AHS.....	Lincoln
Parsons, Verner De Witt.....	(2 yr.) P.....	Havensville, Kans.
Pasewalk, Arnold Ernest.....	SAS.....	Norfolk
Pay, Esther.....	THS.....	West Lincoln
Pay, Ethel.....	THS.....	West Lincoln
Payne, Charles Tyler.....	AHS.....	Lincoln
Payzant, Arthur Robie.....	AHS.....	Schuyler
Pearce, Sidney.....	AHS.....	Lincoln
Pearse, Ernest Nathaniel.....	AHS.....	Genoa
Pearson, Edward Jonas.....	AHS.....	Genoa
Pearson, Olive.....	FA (S).....	Lincoln
Pearson, Victor Nels.....	AHS.....	Genoa
Pearson, Walter Arthur.....	AHS.....	Creighton
Peck, Mabel.....	Ex.....	Indianola
Pedersen, Chris.....	SAS.....	Ruskin
Pedersen, Henry.....	SAS.....	Ruskin
Peirce, Claud Alvah.....	(3 yr.) P.....	Red Cloud
Penterman, Dala.....	AHS.....	Firth
Peregrine, Ray A.....	SAS.....	Fullerton
Perrigo, Charles Arthur.....	Ex.....	Dodge
Perrin, Esther.....	THS.....	Roca
Perrin, Ida.....	THS.....	Roca
Peters, Henry.....	AHS.....	Scribner
Petersen, John Martin.....	SAS.....	Carroll
Petring, Katherine Isabel.....	AHS.....	Nebraska City
Pettett, Frank Andrew.....	AHS.....	Elm Creek
Pettit, Edison.....	Ex.....	Minden
Pflug, J. C.....	Ex.....	Ohioa
Phelps, Paul.....	AHS.....	Lincoln
Phillipson, Victor Reuben.....	AHS.....	Holbrook
Pierce, Frank Ernest.....	AHS.....	Atlanta
Pillard, William.....	THS.....	Lincoln
Polk, Luverne.....	THS.....	Lincoln
Polk, Marguerite.....	THS.....	Lincoln
Pollard, Hall Addison.....	AHS.....	Nehawka
Pomajzl, Vaclav J.....	AHS.....	Wilber
Pomeroy, Ross.....	AHS.....	Allen
Pope, Harry.....	AHS.....	Lincoln
Porter, Harold Orman.....	AHS.....	Lincoln
Porter, Laura A.....	FA (S).....	Lincoln
Posson, Melancthon Brahan.....	SAS.....	Eureka
Post, Glenn.....	SAS.....	Cowles
Post, Verner William.....	AHS.....	Stratton
Pothast, Edith Marie.....	AHS.....	Lincoln
Poulson, Charles Park.....	AHS.....	Lincoln
Powell, Louis Fish.....	AHS.....	Alliance
Praisewater, Joe.....	SAS.....	Oregon, Mo.
Pratt, Frances.....	THS.....	Lincoln
Pray, Jay.....	SAS.....	Loup City
Price, George Leonard.....	SAS.....	St. Edward
Putnam, Horace Blaine.....	AHS.....	Stromsburg
Quinn, J. H.....	SAS.....	Gothenburg
Raasch, Darius Paul.....	SAS.....	Norfolk
Rail, Hovey Ray.....	AHS.....	Birmingham, Ia
Ramaekers, Joseph William.....	SAS.....	Lindsey
Ramplin, Pearl.....	AHS.....	Lincoln
Randall, Winifred Martha.....	AHS.....	Bennet
Randel, Elmer Chester.....	AHS.....	McCook
Rasdal, Melvine Earl.....	(2 yr.) P.....	Homer

Rasmussen, George.....	SAs.....	Ainsworth
Reed, Earl Vernet.....	FA, THS.....	Lincoln
Reed, Frank.....	THS.....	Clarinda, Ia.
Reed, Glenn Hobart.....	AHS.....	Raymond
Reed, William H.....	AHS.....	Carroll
Reimund, H. H.....	Ex.....	Weeping Water
Reitmeyer, Howard B.....	Ex.....	Maquoketa, Ia.
Renard, Edward John.....	AHS.....	Arlington
Rhine, Harold.....	THS.....	Omaha
Rice, Alden Nixon.....	AHS.....	Lincoln
Rice, Opal M.....	Ex.....	Sterling
Rice, Wilbur F.....	AHS.....	Clearwater
Rice, William Gramlich.....	AHS.....	Bridgeton, N. J.
Richards, Helen.....	AHS.....	Lincoln
Richards, Hume Gibson.....	AHS.....	Lincoln
Richards, Lilyan Amelia.....	Ex.....	Omaha
Richardson, Maurine.....	FA, (S).....	Lincoln
Rieher, Robert Edward.....	AHS.....	Red Cloud
Rieke, William Frederick.....	AHS.....	Union
Rikard, Floyd Arthur.....	AHS.....	Lincoln
Ring, Gladys Mary.....	AHS.....	Cheney
Ring, Susannah Candace.....	AHS.....	Cheney
Rink, Lawrence Elmer.....	AHS.....	Shelby, Ia.
Ripley, George Henry.....	AHS.....	Aladdin, Wyo.
Roberts, Faye.....	THS.....	West Lincoln
Roberts, Sybil Alene.....	AHS.....	Arlington
Roberts, Walter Freeman.....	AHS.....	Joy
Roberts, Willis.....	SAs.....	Tecumseh
Robertson, James William.....	AHS.....	Madison
Rodgers, John Sheldon.....	AHS.....	Lincoln
Roe, Benjamin Cattle.....	AHS.....	Omaha
Rogers, Arthur Ira.....	AHS.....	Decatur
Rogers, Paul Martin.....	(2 yr.) P.....	Ragan
Rogers, Wilbur Anthony.....	AHS.....	Ord
Rohe, Henry.....	THS.....	Lincoln
Rohman, Essabell Marie.....	FA, (S).....	Lincoln
Rokahr, Fritz Carl.....	AHS.....	Venus
Rosene, Morris Emanuel.....	AHS.....	Stromsburg
Rosengren, Evedine Luella.....	AHS.....	Colon
Roth, Frieda Hattie.....	AHS.....	Columbus
Roth, Herbert John.....	AHS.....	Niobrara
Rush, Roma.....	THS.....	Lincoln
Rutland, William Cloyd.....	SAs.....	Hiawatha; Kans.
Ryan, Dan.....	SAs.....	Emerson
Rydberg, Carl Milton.....	AHS.....	Wood River
Rystrom, Raymond Wendell.....	AHS.....	Stromsburg
Sackschewsky, Leo.....	SAs.....	York
Safford, Elizabeth.....	THS.....	Lincoln
Safford, Frank Edward.....	AHS.....	Waterloo
Sandahl, Ernest.....	SAs.....	Wakefield
Sandstrom, Lottie Christine.....	AHS.....	Ceresco
Sanford, Genevieve.....	THS.....	Lincoln
Sanford, Virginia.....	Ex.....	Omaha
Savage, Warren Curtis.....	AHS.....	Spalding
Schaefer, E. W.....	SAs.....	Beatrice
Schaeffelberger, Ernest Walter.....	(2 yr.) P.....	Fairbury
Scheer, Clinton Leroy.....	AHS.....	Stamford
Schlender, George.....	SAs.....	Osmond
Schleh, Vernon.....	THS.....	Omaha
Schmidt, Cajus.....	SAs.....	Germantown
Schmidt, Julius Otto.....	AHS.....	Tecumseh
Schrepf, Mary.....	THS.....	Lincoln
Schroeder, John.....	SAs.....	Fort Calhoun
Schudel, Edwin Oscar.....	SAs.....	North Loup

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Schutte, Henry Dick.....	SAs.....	Waterbury
Schutte, John Henry.....	SAs.....	Waterbury
Schwake, Mabel.....	THS.....	Lincoln
Schwenker, Harold.....	THS.....	Western
Scofield, John Howard.....	AHS.....	Lincoln
Scott, Everett Charles.....	AHS.....	Republican City
Scott, Lawrence Irving.....	AHS.....	Omaha
Scott, Ruth Roseline.....	AHS.....	Lincoln
Seabury, Vernon.....	Ex.....	Inglewood, Cal.
Selby, Clifford Rudolph.....	AHS.....	Smithfield
Selby, Marion Louella.....	AHS.....	Smithfield
Shaw, Katie.....	Ex.....	Adams
Shay, Rebecca.....	THS.....	Lincoln
Shea, Margaret.....	Ex.....	Sterling
Shea, Mildred.....	THS.....	Raymond
Shebal, Vera.....	THS.....	Lincoln
Shepherd, Joseph Ben.....	AHS.....	Dallas, Ore.
Sherburne, Robert Henry.....	AHS.....	Loretto
Shinn, Lillian.....	THS.....	Lincoln
Showalter, Donald Fox.....	Ex. (S).....	Davenport
Shroyer, George Andrew.....	AHS.....	Grafton
Shuff, Irene.....	THS.....	Lincoln
Sidwell, Axel Erick.....	SAs.....	Polk
Siegrist, Florence Eleanor.....	AHS.....	Ceresco
Siemens, Ernest.....	SAs.....	Beatrice
Simmons, Cora A.....	Ex.....	Western
Simonds, Everett James.....	AHS.....	University Place
Sinclair, Hubert.....	AHS.....	College View
Sindt, John.....	AHS.....	Naponee
Sipp, Charles Roy.....	SAs.....	Denton
Sjogren, Henry E.....	AHS.....	Funk
Skinner, C. J.....	Ex.....	Berlin
Skudrna, Anton William.....	AHS.....	San Pierre, Ind.
Smith, Alfred C.....	SAs.....	Mullen
Smith, Clara.....	AHS.....	Irene, S. D.
Smith, Frank LeRoy.....	Ex.....	Brady
Smith, George Perry.....	AHS.....	Lamar
Smith, Jesse Matson.....	SAs.....	Gayville, S. D.
Smith, Lloyd.....	AHS.....	Seward
Smith, Nels.....	SAs.....	Verdigre
Smith, Palmer.....	Ex.....	Fairbury
Smith, Sam.....	SAs.....	Eustis
Smock, Roy Victor.....	SAs.....	Oconto
Snell, Hazel Frost.....	FA.....	Lincoln
Snodgrass, Wilber Starr.....	AHS.....	Brook
Snyder, Oaklan Henry.....	AHS.....	Lincoln
Somers, Josie.....	Ex.....	Roca
Soost, Dora Olive.....	AHS.....	Bloomfield
Soost, Edward.....	SAs.....	Magnet
Soukup, A. E.....	SAs.....	Morse Bluff
Stafford, Joseph.....	Ex.....	Pierce
Stamper, Louis Edmund.....	AHS.....	Rushville
Stanley, Harold Belmont.....	AHS.....	Riverton
Stark, Walter.....	SAs.....	Niobrara
Steadman, Joseph Robert.....	AHS.....	Stella
Stearn, Will.....	SAs.....	Cowles
Stech, Katherine Helen.....	Ex.....	Milligan
Steckelberg, Anna.....	Ex.....	Plymouth
Steele, Clark Joseph.....	AHS.....	Bronson, Kans.
Stenger, Emma Elizabeth.....	AHS.....	St. Paul
Stephenson, Byron.....	THS.....	Lincoln
Stevenson, Claire.....	SAs.....	St. Joseph, Mo.
Stewart, Leon Roy.....	AHS.....	Lincoln
Stewart, Lloyd Joshua.....	AHS.....	Valparaiso
Stewart, Lyle Jacob.....	SAs.....	Charleston

Stewart, Owen Pressley.....	Ex.....	Sterling
Stewart, Robert.....	AHS.....	Tecumseh
Stockdale, William Tolbert.....	Ex.....	Cnadron
Stokke, Dean Emil.....	Ex, THS.....	Lincoln
Storrs, Harriet A.....	Ex.....	Bellevue
Stout, Oscar Charles.....	AHS.....	Lincoln
Stowe, Walter Herbert.....	(2 yr.) P.....	Lincoln
Stowell, Harold Clemont.....	AHS.....	Lincoln
Streeter, Lenore.....	THS.....	Lincoln
Strine, Roy.....	AHS.....	Lincoln
Stryker, Richard.....	AHS.....	Lincoln
Stuart, Mary A.....	FA.....	Lincoln
Stubbe, Henry.....	AHS.....	Central City
Stuckenholtz, Rollan.....	SAs.....	Julian
Stumph, John E.....	AHS.....	Whitney
Stutt, Aden.....	AHS.....	Avoca
Sudbeck, August.....	AHS.....	Hartington
Sullivan, Edward.....	THS.....	Lincoln
Sullivan, Frank Charles.....	AHS.....	Lincoln
Sumner, John True.....	Ex.....	Schuyler
Sutton, Anna May.....	AHS.....	Wahoo
Sutton, Ellen Ely.....	AHS.....	Wahoo
Swanson, Lydia Victoria.....	AHS.....	Aurora
Swingle, Calvin Lamar.....	AHS.....	Lincoln
Tannehill, Clyde.....	AHS.....	Norfolk
Tanner, Clarence Francis.....	AHS.....	Bethany
Tell, Arthur William.....	Ex.....	Dunbar
Temple, Lee.....	THS.....	Hallam
Terry, John Edward.....	AHS.....	Monroe
Terry, Raymond Carvel.....	AHS.....	Monroe
Therkelsen, John.....	Ex.....	Lincoln
Thomas, Helen Louise.....	AHS.....	Lincoln
Thomas, Richard Lee.....	(3 yr.) P.....	Rushville, Mo.
Thompson, Lee William.....	AHS.....	Lincoln
Thompson, Loys Arland.....	(2 yr.) P.....	Overton
Thomson, Paul John.....	AHS.....	Florence
Thurber, Alleyene Newman.....	AHS.....	Lincoln
Thurlwell, Vernon.....	THS.....	Malcolm
Tiaht, William W.....	SAs.....	Hoag
Tinklepaugh, Verna.....	Ex.....	Lincoln
Todd, Dwyer Brown.....	AHS.....	Murray
Todd, Vance.....	SAs.....	Murray
Trautt, Thomas Joseph.....	(2 yr.) P.....	Lincoln
Trott, Leola Marie.....	AHS.....	Lincoln
Troup, Grace.....	THS.....	Lincoln
Trumble, Roy Ambrose.....	AHS.....	Lincoln
Tucker, Erne L.....	SAs.....	Pender
Tully, Edward Farlo.....	AHS.....	Lincoln
Tupper, J Moulton.....	AHS.....	Osmond
Turner, Benjamin.....	THS.....	Moravia, Ia.
Ulken, Diedrich.....	AHS, SAs.....	Creston
Ulken, Frederick.....	SAs.....	Creston
Uphoff, Carl.....	SAs.....	Gilead
Urban, Sister M.....	Ex.....	St. Louis, Mo.
Van Camp, Vernon.....	Ex.....	Winnetoon
Van Osdol, Otto W.....	AHS.....	North Loup
Van Tuyl, Clara.....	THS.....	Lincoln
Van Tuyl, Nellie.....	THS.....	Lincoln
Van Wie, Harriet.....	THS.....	Waverly
Vaughn, Fred Walter.....	SAs.....	Loomis
Vincent, Lee B.....	AHS.....	Salem, Ohio
Vogler, Robert Clyde.....	AHS.....	Kimball
Voigt, Walter.....	SAs.....	Davenport
Von Steen, Walter.....	SAs.....	Beatrice
Vorse, Robert Bruce.....	AHS.....	Yutan

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Vosburg, John Sherwood.....	SAs.....	Granville, Ia.
Voss, Fred Henry.....	AHS.....	Shelton
Walte, Marshall Sawyer.....	AHS.....	Lincoln
Walker, Deane Campbell.....	AHS.....	Dunbar
Walker, Donald.....	SAs.....	Dunbar
Walker, Ruth.....	AHS.....	Davenport
Walker, Vern.....	SAs.....	Belvidere
Wall, Henry T.....	AHS.....	Ruskin
Wall, Willard Elmer.....	AHS.....	Whitney
Wallace, William Gordon.....	(2 yr.) P.....	Havelock
Walline, Carl Axel Verner.....	AHS.....	Funk
Wandt, Floyd Henry.....	SAs.....	David City
Ward, William John.....	SAs.....	Ulysses
Ward, Wylie Ray.....	AHS.....	Overton
Warner, George Chester Row.....	AHS.....	Waverly
Waters, Howard.....	SAs.....	Armour
Watson, Clarence.....	AHS.....	Holbrook
Watson, Latta.....	FA, (S).....	Lincoln
Watt, Fredrick Stephen.....	Ex.....	Guide Rock
Weart, Ethel.....	THS.....	Lincoln
Webb, John Wayne.....	Ex.....	Winnetoon
Webb, Ruth Josephine.....	AHS.....	Lincoln
Weinert, Arthur.....	SAs.....	Rulo
Weiler, Henry Oscar.....	SAs.....	Raymond
Wells, Charles Edward.....	AHS.....	Lincoln
Wendell, Albert Franklin.....	AHS.....	Wilcox
Wentz, Lawrence Eugene.....	AHS.....	Lincoln
Wescoatt, Lex.....	SAs.....	Wood River
Weseen, Mildred Jennie.....	Ex.....	Oakland
Weston, John Waldo.....	AHS.....	Beatrice
Westover, Harry Robert.....	SAs.....	Hyannis
Westover, Hazel Elizabeth.....	AHS.....	Lincoln
Weyant, Romer.....	THS.....	Lincoln
Wheeler, Addie Louise.....	AHS.....	Lincoln
Wheeler, Orville Will.....	AHS.....	Lincoln
White, Gertrude.....	AHS.....	York
White, James Ralph.....	SAs.....	McCool Jct.
White, Langdon Elbert.....	AHS.....	Lincoln
White, Paul.....	THS.....	McCool Jct.
White, Wilton Adna.....	AHS.....	Elgin
Whitmore, Roland Monroe.....	AHS.....	Lincoln
Whitmore, Victor.....	THS.....	Beatrice
Wiebe, Jacob.....	SAs.....	Arberville
Wilcox, Lemuel Rex.....	AHS.....	Lincoln
Wilke, Erma.....	FA.....	Lincoln
Wilke, Tressa.....	FA.....	De Witt
Wilkens, William Carl.....	AHS.....	Lincoln
Wilkenson, Henry James.....	AHS.....	Smithfield
Wilkey, Eda.....	THS.....	Smithfield
Willard, Virgil Parkins.....	AHS.....	Omaha
Williams, Alice Luvern.....	AHS.....	Lincoln
Williams, Charlie Arthur.....	AHS.....	Eaton, Colo.
Williams, Curtis Lambert.....	AHS.....	Stella
Williams, H. R.....	Ex.....	Grand Island
Williams, James.....	THS.....	Raymond
Wilson, Conland.....	THS.....	Lincoln
Wilson, Earl Romine.....	AHS.....	Lincoln
Wilson, Helen.....	FA, (S).....	Lincoln
Wimberly, Arthur.....	THS.....	Table Rock
Wintermute, Russell Clark.....	AHS.....	Friend
Wiswell, Charles T.....	AHS.....	Gresham
Withers, Gladys.....	THS.....	Lincoln
Witt, Arnold.....	AHS.....	Scribner

THE UNIVERSITY OF NEBRASKA

Wittwer, Clare Louise.....	AHS.....	Lincoln
Wolfe, Ada.....	Ex.....	Normal
Wolverton, Daniel John.....	AHS.....	Stanton
Wood, Clarence.....	SAs.....	Carroll
Wood, Fannie Lyon.....	AHS.....	Lincoln
Woods, Walter Edward.....	AHS.....	Lincoln
Worthman, Henry Fred.....	(2 yr.) P.....	Lincoln
Yates, Della May.....	AHS.....	Geneva
Yensen, Joseph Harden.....	AHS.....	Lowell
Young, Daniel William.....	AHS.....	Mitchell
Young, Olivia Mildred.....	(2 yr.) P.....	Lincoln
Zentz, James Ralph.....	SAs.....	York
Ziemer, Harry Herman.....	Ex.....	Hoskins
Zumwalt, Wayne Warren.....	AHS.....	Clay Center
Zurbrick, Walter Edward.....	AHS.....	Verdon

1912-1913

SUMMARY OF STUDENTS IN THE COLLEGES

	Men	Women	Total
The Graduate College.....	155	114	269
The College of Arts and Sciences			
Fourth Year	113	151	
Third Year	108	147	
Second Year	133	151	
First Year	271	293	
Unclassed	62	204	
	687	946	1633
The Teachers College			
Fourth Year	11	79	
Third Year	12	75	
	23	154	177
The College of Engineering			
Fourth Year	50	...	
Third Year	66	...	
Second Year	73	...	
First Year	140	...	
Unclassed	17	...	
	346	...	346
The College of Agriculture			
Fourth Year	28	15	
Third Year	40	14	
Second Year	53	40	
First Year	94	53	
Unclassed	9	26	
	224	148	372
The College of Law			
Third Year	62	...	
Second Year	59	...	
First Year	82	...	
Unclassed	24	2	
	227	2	229
The College of Medicine			
Fourth Year	7	2	
Third Year	12	1	
Second Year	20	3	
First Year	32	1	
Unclassed	30	...	
Second Year, Six-Year Combined Course.....	35	1	
First Year, Six-Year Combined Course.....	39	1	
	175	9	184
Grand Total	1837	1373	3210
Deduct for Repeated Names.....	196	164	360
Total Registration	1641	1209	2850

1912-1913

SUMMARY OF STUDENTS IN THE SCHOOLS AND IN THE
DEPARTMENT OF UNIVERSITY EXTENSION

	Men	Women	Total
The Agricultural High School			
Six Months Course	366	107	
* Deduct	2	...	
	364	107	471
The School of Agriculture			
Six Weeks Course	189	3	
* Deduct	1	1	
	188	2	190
The School of Fine Arts			
Nine Months Course.....	8	68	
* Deduct	1	37	
	7	31	38
The School of Pharmacy			
Two-Year Course (Nine Months).....	26	3	
Three-Year Course (Nine Months).....	7	...	
Four-Year Course (College Course).....	10	1	
	43	4	
* Deduct	12	1	
	31	3	34
The Teachers College High School			
Nine Months Course	88	92	
* Deduct	27	13	
	61	79	140
University Extension			
May 1, 1912, to May 1, 1913.....	92	95	
* Deduct	39	48	
	53	47	100
Grand Total	704	269	973
Deduct for Repeated Names.....	10	1	11
Total Registration	694	268	962

SUMMARY OF STUDENTS

	Men	Women	Total
In Colleges	1641	1209	2850
In Schools and University Extension.....	694	268	962
GRAND TOTAL OF UNREPEATED NAMES.....	2335	1477	3812

* The names deducted indicate the students who are registered primarily in one of the Colleges but are also registered in one of the Schools.

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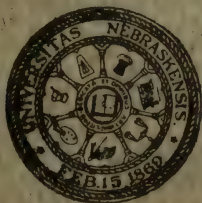
Series XIX

No. 13

Bulletin of The University of Nebraska

FORTY-FOURTH ANNUAL GENERAL CATALOG

CONTAINING
THE COMPLETE RECORD FOR 1913-1914
ANNOUNCEMENTS FOR 1914-1915



Published by the University in June, 1914. Entered at the Post-Office at Lincoln, Nebraska, as second-class matter under Act of Congress July 16, 1894. The Bulletin of the University of Nebraska is published monthly in March, semi-weekly in April, and monthly in May, June, August and November of each year. One number each is issued of General Information, of the General Catalog, College of Agriculture, the College of Engineering, the College of Law, the College of Medicine, the Summer Session, and the Schools of Agriculture, Commerce, Fine Arts, and Pharmacy. A separate catalog of the Graduate, Arts and Sciences, and Teachers Colleges, and a bulletin of the Department of University Extension are also published. On request, any of these are furnished by the Registrar, Station A, Lincoln, Nebraska.

Bulletin of The University of Nebraska

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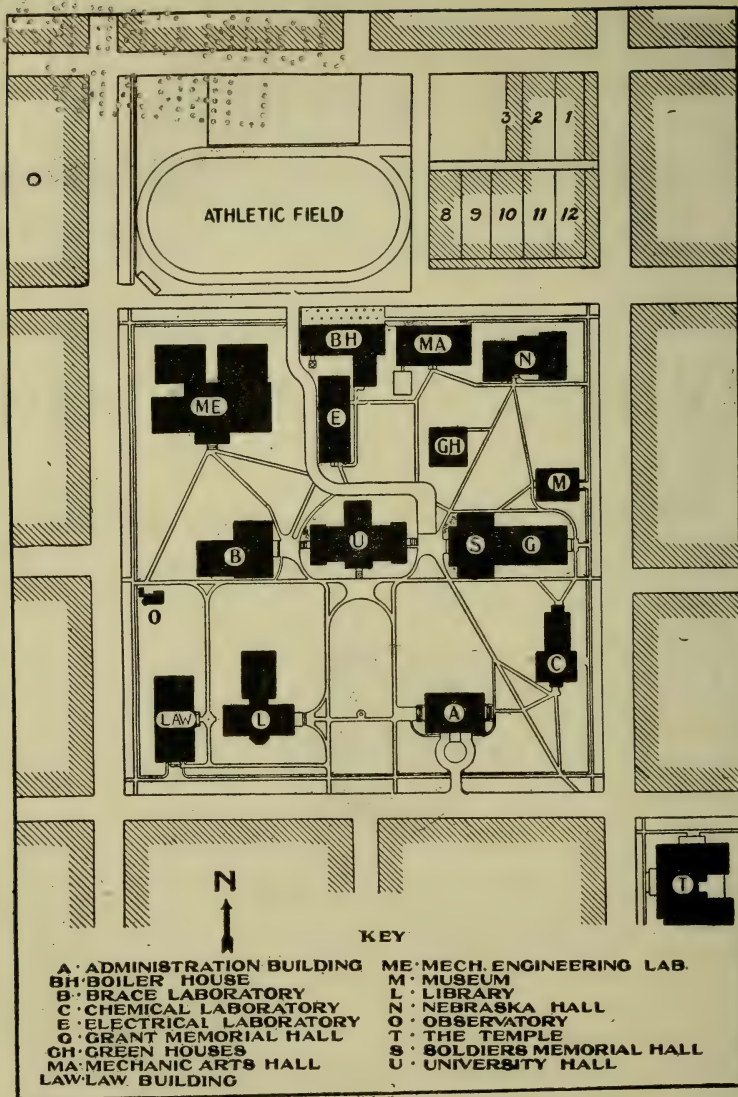
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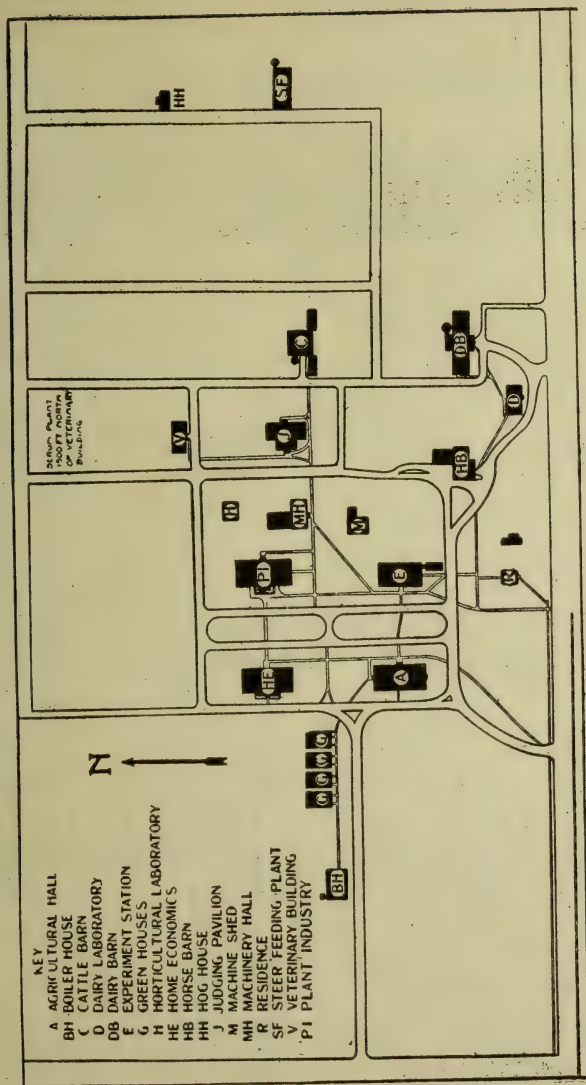


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THE UNIVERSITY CAMPUS IN THE CITY



THE UNIVERSITY OF NEBRASKA FARM CAMPUS.

1914

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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1915

JANUARY							FEBRUARY							MARCH							APRIL						
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
							31																				

1914

Sept. 18-19—Registration, first semester.

Nov. 25-28—Thanksgiving Recess

Dec. 21-Jan. 2—Christmas Recess

1915

Jan. 29-30—Registration, second semester.

Feb. 15—Charter Day, a holiday.

Mar. 29-April 3—Spring Recess

May 30—Decoration Day.

June 6-10—Forty-fourth Annual Commencement.

CALENDAR FOR 1914-1915 OF ALL COLLEGES AND SCHOOLS

1914

September 14-19	Monday-Saturday	University entrance examinations.
September 16-19	Wednesday-Sat.	Registration, first semester.
September 17-20	Thursday-Saturday	Registration, first semester, Lincoln Dental College (associated with the University).
September 19	Saturday, 8 p. m.	University reception to all students.
September 21	Monday	First semester classes begin.
September 22	Tuesday, 11 a. m.	Opening address, the Chancellor.
October 12	Monday	School of Agriculture, first semester begins.
November 25	Wednesday, 12 m.	Thanksgiving recess begins.
November 28	Saturday, 12 m.	Thanksgiving recess ends.
December 4	Friday	Debate or Cornhusker banquet.
December 8	Tuesday	Regular Meeting of the Board of Regents (first Tuesday after the first Wednesday in December).
December 11	Friday	Debate or Cornhusker banquet.
December 21	Monday, 8 a. m.	Christmas vacation begins.

1915

January 2	Saturday, 12 m.	Christmas vacation ends.
January 4	Monday	School of Agriculture, winter course begins.
January 27-30	Wednesday-Sat.	First semester examinations.
January 25-30	Monday-Saturday	Entrance examinations.
January 27-30	Wednesday-Sat.	Registration, second semester.
January 28-30	Thursday-Saturday	Registration, second semester, Lincoln Dental College (associated with the University).
January 25	Monday	School of Agriculture, second semester begins.
February 1	Monday	Second semester classes begin.
February 13	Saturday, 8 p. m.	Annual Address before the Sigma Xi Society.

February 15	Monday	Charter Day. A holiday. Regular meeting of the Board of Regents. Nineteenth Annual Mid-Winter Commencement.
March 29	Monday, 8 a. m.	Spring recess begins.
April 3	Saturday, 12 m.	Spring recess ends.
April 6	Tuesday	Regular meeting of the Board of Regents (the first Tuesday after the first Wednesday in April).
April 21	Wednesday	School of Agriculture, Principal's reception.
April 23	Friday	School of Agriculture, Commencement.
May 30	Sunday	Decoration Day.
May 31-June 5	Monday-Saturday	Second semester examinations.
June 4	Friday,	Teacher's College High School Commencement
June 7	Monday, 4 p. m.	Final recommendations by faculties for degrees.
June 7	Monday	Summer Session begins.
June 11	Friday	Registration, Summer Session.

Commencement Week, 1915

June 6	Sunday	Baccalaureate Sermon.
June 8	Tuesday	Annual meeting Board of Regents.
June 9	Wednesday	Alumni Day.
	9 a. m.—2 p. m.	Class reunions and dinners.
	4 p. m.	Business meeting and Alumni address. Agricultural Hall.
	5 to 7 p. m.	Alumni Banquet. The University Farm.
June 10	Thursday	Forty-fourth Annual Commencement.
	10 a. m.	Commencement procession.
	10:30 a. m.	Oration and conferring of degrees.
September 22	Wednesday	First semester begins (1915-1916).

THE BOARD OF REGENTS

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Term expires January, 1915.	
HON. GEORGE COUPLAND.....	Elgin
Term expires January, 1915.	
HON. CHARLES SUMNER ALLEN, President.....	Lincoln
Term expires January, 1917.	
HON. WILLIAM GUNN WHITMORE.....	Valley
Term expires January, 1917.	
HON. FRANK LOUIS HALLER.....	Omaha
Term expires January, 1919.	
HON. VICTOR GERALD LYFORD.....	Falls City
Term expires January, 1919.	

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FRITZ KNORR, B. Sc., Superintendent of Experimental Substation at Scottsbluff.

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¹ Resigned.

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GRACE ROOD, Library Assistant.
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CARRIE ADELINE BARBOUR, B. Sc., Assistant Curator of the University Museum.
RAYMOND JOHN POOL, Ph. D., Curator of the Herbarium.

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INA ESTELLE GITTINGS, A. B., Director of the Women's Gymnasium.
EWALD ORTWIN STIEHM, A. B., Director of Athletics.
GUY EUCLID REED, A. B., Assistant Manager and Assistant Director of Athletics.

¹ Resigned.

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SECRETARY, JAMES STUART DALES, M. Ph., Secretary of the Board of Regents.

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Athletics—Professors Barber (chairman), Caldwell, Clapp, Morrill, Stiehm, Wolfe.

Convocation Exercises—Professor Grummann (chairman), Mrs. Raymond, The Registrar.

Delinquent Students—Professors Chatburn (chairman), Engberg (secretary), Conklin, Frye, Lees, Maxey, Dean of Women Graham.

Nominations—The Chancellor (chairman), Professors Barber, Bessey, Burnett, Howard, Lees.

Publication of University Studies—Deans Sherman (chairman), Bessey, Professors Fling, Grummann, Frye.

Student Organizations and Social Functions—Professors Chatburn (chairman), Tuckerman (auditor), Engberg, Sanford, Dean of Women Graham, the chairman of the inter-fraternity and inter-sorority councils.

Student Publications—Dean Stout (chairman), Professors Aylsworth, Alexander, Buck, Bradford.

University Extension Courses and Credits—Dean Davis (chairman), Professors Caldwell, Condra, LeRossignol, Luckey, Pugsley, Reed.

ALPHABETICAL LIST OF ALL OFFICERS OF ADMINISTRATION AND INSTRUCTION

MARKS AND ABBREVIATIONS

Figures in parentheses (as 1911, 1910) indicate, respectively, year in which present rank was attained and year of first membership in a faculty of the University.

Letters in parantheses as (AS, E) indicate college faculty or faculties of which the person is a member.

FACULTIES

A = College of Agriculture
AS = College of Arts and Sciences
E = College of Engineering
G = Graduate College

L = College of Law
M = College of Medicine
T = Teachers College

OFFICES

Adm = Administration Hall, Campus
Agr. H = Agricultural Hall, Farm
B = Brace Laboratory of Physics, Campus
C = Chemistry Hall, Campus
D = Dairy Hall, Farm
Elect = Electrical Engineering Laboratories, Campus
E S = Experiment Station Hall, Farm
G = Grant Memorial Hall, Campus
H E = Home Economics Hall, Farm
Hort. H = Horticultural Hall, Farm

L = Library Hall, Campus
Law = College of Law Building, Campus
M = Mechanic Arts Hall, Campus
M E = Mechanical Engineering Laboratories, Campus
Mach. H = Machinery Hall, Farm
Mus = Museum, Campus
N = Nebraska Hall, Campus
P I = Plant Industry Hall, Farm
S = Soldiers' Memorial Hall, Campus
U = University Hall, Campus

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ALEXIS, JOSEPH EMANUEL ALEXANDER, A. M., Assistant Professor of Swedish and Germanic Languages (1913, 1910), U 108, 1420 Elm street (AS).

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ANDERSON, EDWARD EMIL, B. Sc., Assistant Superintendent of Construction, Adm. 207, 320 W. Seventeenth street, University Place (Adm).

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- ANDERSON, WILLIAM NANCE, B. Sc., M. D., Instructor in Physical Diagnosis, 3212 Cuming street, Omaha (M).
- ANHEUSER, AMALIA, A. B., Instructor in German and Mathematics, Curtis.
- EVERY, SAMUEL, Ph. D., LL. D., Chancellor and President of the University Senate (1909, 1901), Adm. 101, 2001 Washington street (Adm):
- AYLSWORTH, LEON EMMONS, A. M., Associate Professor of Political Science (1910, 1902), Law 103, 2048 Vine street (AS, G).
- AYRES, SARAH EDITH, Assistant in Library, L, 1905 Harwood street (L).
- BAER, ALVA ALDUS, A. B., Assistant Professor of Agricultural Engineering (1914, 1907), 1729 Prospect street (A).
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- BARBOUR, CARRIE ADELINE, B. Sc., Assistant Curator of the Museum and Instructor in Paleontology (1911, 1893), Mus. 101, 1501 S street.
- ² BARBOUR, ERWIN HINCKLEY, Ph. D., Professor of Geology (Head of Department of Geology) (1906, 1891), Curator of University Museum, Mus. 201, 1234 R street (AS, G).
- BARKER, FRANKLIN DAVIS, Ph. D., Professor of Medical Zoology and Parasitology (1913-1903), N 205, 1819 South Twenty-sixth street (AS, M, G).
- BARKER, PERCY BOUSFIELD, A. M., Professor of Instructional Agronomy (Head of Department of Instructional Agronomy) (1913, 1908), E. S. 106, 3003 Starr street (A).
- BARNES, VIOLA FLORENCE, A. M., Instructor in American History (1912, 1909), U 210, 1645 R street (AS).
- BAUMGARTNER, MILTON D., A. M., Assistant Professor of Germanic Languages and Literatures, (1912, 1907), U 108, 1220 South Twenty-second street (AS).
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- ¹ BEAULIEU, L. V., B. A., B. Di., M. A., LL. B., Professor of Law.
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¹ Resigned.

² Director of State Geological Survey.

- BENGTSON, NELS AUGUST, A. M., Associate Professor of Geography and Conservation (1913, 1908), U 308A, 1911 Euclid avenue (AS, T, E, A).
- BERRY, HALLIE DORSEY, Librarian, College of Medicine, Omaha.
- BESSEY, CHARLES EDWIN, Ph. D., LL. D., Head Dean and Professor of Botany (Head of Department of Botany) (1906, 1884), N 104a, 1507 R street (AS, T, A, G).
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- ¹ BISHOP, EARL S., Assistant Chemist at Experiment Station.
- BLISS, RALPH K., B. Sc., Professor of Animal Husbandry (Head of Department of Animal Husbandry), (1912, 1912), Agr. H. 103, 3045 Vine street (A).
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- BORROWMAN, GEORGE, A. M., Associate Professor of Chemistry (1914, 1905), C8, 947 South Thirteenth street (AS, E).
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¹ Resigned.

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- CALDWELL, HOWARD WALTER, A. M., Professor of American History (Head of Department of American History) (1906, 1883), U 210, 1919 E street (AS, G, T).
- CALVIN, JOHN WILLARD, B. Sc., Assistant Professor of Agricultural Chemistry (1914, 1914), E. S. 103, 644 North Thirty-second street (A).
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² Resigned.

³ Deceased.

⁴ Leave of Absence.

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- CORNELL, CLARE BROWN, A. M., Instructor of Cadet Band and Assistant in Philosophy (1912, 1911), L 111, 519 South Thirtieth street.
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- DALES, BENTON, Ph. D., Professor of Chemistry (Head of Department of Chemistry) (1911, 1903), C, 2025 C street (AS, T, E, M, G).
- DALES, JAMES STUART, M. Ph., Secretary of the Board of Regents and of the University Senate, Adm. 102, 1743 A street (Adm).
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¹ Resigned.

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- DAY, ELSIE, A. B., Ph. G., Assistant Professor of Pharmacognosy (1914, 1908), N 7, 2030 Sumner street (AS, M).
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- EMERSON, ROLLINS ADAMS, B. Sc., Professor of Horticulture (Head of Department of Horticulture) (1905, 1899), P. I. 105, 3034 R street (A, G, AS).
- ENGBERG, CARL CHRISTIAN, Ph. D., Executive Dean and Professor of Applied Mathematics (1913, 1896), Adm. 104, 330 North Thirty-second street (AS, E, G).
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¹ Leave of Absence.

² Resigned.

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- HINTERLONG, ANNA LAURA, A. B., B. E., Fellow in Geology, Mus. 102, 1411 E street.
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- HOFFMAN, JAMES DAVID, M. E., Professor of Mechanical Engineering and Practical Mechanics (Head of Department of Mechanical Engineering) (1912, 1911), M. E. 203, Forty-third and Interurban.
- HOLLISTER, ROBERT RUSSELL, M. D., Instructor in Surgery and Gynecology, 4907 Davenport street, Omaha (M).
- HOLLISTER, VERNON LEO, E. E., Associate Professor of Electrical Engineering, (1913, 1907), E. E. Lab. 4, 1556 South Twenty-fifth street (E).
- HOOD, GEORGE WILLIAM, B. Sc. in Hort., Associate Professor of Horticulture (1913, 1913), P. I. 102, 2603 Vine street (A).

- HOPT, ERWIN, B. Sc. in A., Associate Professor of Agronomy (1914, 1908), J. P. 204, 3015 Orchard street (A).
- HOSFORD, FREDERICK ADDISON, Campus Electrician, Adm. 207, Y. M. C. A.
- HOWARD, GEORGE ELLIOTT, Ph. D., Professor of Political Science and Sociology (Head of Department of Political Science and Sociology) (1904, 1878-1891), U 103, 1910 E street (AS, G).
- HOWELL, HARRIET ALICE, A. M., Assistant Professor of Elocution and Dramatic Art (1914, 1900), U 106, The Orlo (As, T).
- HOWIE, ETHEL LEE, A. B., Fellow in European History, T, 1619 R street.
- HRBKOVA, SARKA, A. B., Assistant Professor of Slavonic Languages, (Head of Department of Slavonic Languages) (1914, 1907), M 105, 511 South Eleventh street (AS).
- HULL, CHARLES AARON, M. D., Instructor in Surgery, 200 Bee Building, Omaha (M).
- HUNT, ALFRED ONIAS, D. D. S., Lecturer in Dental Surgery, 420 Bee Building, Omaha (M).
- HUNTER, ALICE CUSHMAN, Ph. D., Assistant Professor of Roman History and Literature (1914, 1903), U 205, 1448 R street (AS).
- HUNTER, FREDERICK MAURICE, A. B., Professor of Elementary Education (1911, 1911), 3230 Starr street (A, T).
- HYDE, JOHN FAYE, B. Sc., M. D., Clinical Assistant in Surgery, 460 Brandeis Building, Omaha (M).
- HYDE, WINIFRED FLORENCE, Ph. D., Assistant Professor of Philosophy (1913, 1911), L 109, 1039 C street (AS).
- JEFFERSON, ALFRED, M. D., Instructor in Therapeutics and Gynecology, 440 Brandeis Building, Omaha (M).
- JENSEN, RUSSELL CLAIR, B. S., A. M., Instructor in Dairy Husbandry, D, Fortieth and Starr streets.
- JOHNSON, ALDIS ADELBERT, Ph. D., M. D., Instructor in Clinical Pathology, 4207 Farnam street, Omaha.
- JOHNSON, EDITH C., Stenographer, Department of Dairy Husbandry, D, 1327 J street (Adm).
- JOHNSON, FRED EMANUEL, B. Sc., D. V. S., Superintendent of Anti-hog Cholera Serum Production, Serum Plant, 2445 O street (A).
- JOHNSON, HENRY T., B. Sc., Assistant Professor of Mathematics (1914, 1907), M 307, 725 South Tenth street (AS).
- JONAS, AUGUST FREDERICK, M. D., Professor of Practice of Surgery and Clinical Surgery, 454 Brandeis Building, Omaha (M).
- JONES, ANNA LOUISE, Assistant in Stenographic Bureau, A 206, 721 South Eleventh street (Adm).
- JONES, GUERNSEY, Ph. D., Professor of English History (Head of Department of English History) (1913, 1897), U 211, 1418 L street (AS, G).
- JONES, FLORENCE NIGHTINGALE, A. B., A. M., Ph. D., Instructor in Romance Languages, U 304.
- KATES, ALTA MAY, Library Assistant, Law Library, 137 South Twenty-sixth street (Adm).
- KATES, JENNIE MAY, Assistant in European History and University Extension, 1020 K street.
- KEEGAN, JOHN JAY, B. Sc., Fellow in Anatomy, Omaha (M).
- KEEGAN, MYRTLE, Librarian and Stenographer, Legislative Reference Bureau, 1520 U street.

- KEIM, FRANKLIN DAVID, B. Sc., Assistant in Agronomy, J. P., 3109 Starr street.
- KENNEDY, CHARLES REX, M. D., Assistant Professor of Surgery, 460 Brandeis Building, Omaha (M).
- KIESSELBACH, THEODORE ALEXANDER, A. M., Professor of Experimental Agronomy (Head of Department of Experimental Agronomy) (1913, 1908), 3232 Holdrege street (A)
- KINGSLAND, EARLE BRUSH, Ph. B., B. Sc. in C. E., Instructor in Civil Engineering (1912, 1912), M 205, 1545 South Seventeenth street (E).
- KINNEY, SAMUEL MARKS, A. B., Graduate Assistant in Physics, B 116, 316 West Seventeenth street, University Place.
- KIRK, WILLIAM, A. B., Graduate Assistant in Chemistry, 1330 F street.
- KJELSON, ASTRED ALTHEA, Assistant in Home Economics.
- KNODE, ARCHIBALD RAY, M. D., Clinical Assistant in Ophthalmology and Otology, 416 Omaha National Bank Building, Omaha (M).
- KNORR, FRITZ, B. Sc., Superintendent of Experiment Substation at Scottsbluff (Adm).
- ¹ KORSMEYER, JULIA MARIE, A. M., Assistant Professor of Romance Languages and Literatures (1911, 1901), U 302, 1920 C street (AS, G).
- KRAMER, BERTHA NATHALIA, B. Sc., Fellow in Botany, N 102b, 1437 S street.
- LAMMERS, JOSEPHINE SOPHIA, A. B., Reference Librarian, L, 2630 R street.
- LANPHERE, GRANT HAROLD, Assistant in Physical Sciences, T, 1440 Q street.
- LATHROP, LOUIS ARTHUR, Assistant in Animal Husbandry.
- LEDWITH, JOHN JAMES, B. Sc., LL. B., Assistant Professor of Law (1914, 1903), Law Building, 1230 South Sixteenth street (L).
- LEE, CHARLES BOPES, B. Sc., Associate Professor of Animal Husbandry (1914, 1910), Agr. H. 104, 1306 L street (A).
- ² LEE, JESSIE ALICE, A. B., Fellow in Botany, 2501 Dudley street.
- LEES, JAMES THOMAS, Ph. D., Professor of Greek History and Literature (Head of Department of Greek History and Literature) (1906, 1889), U 215, 645 North Thirtieth street (AS, G, T).
- ² LEFSCHETZ, SOLOMON, M. E., Ph. D., Instructor in Mathematics (1911, 1911), M 301½, 535 North Sixteenth street (AS).
- LELAND, REV. DEAN RICHMOND, A. B., Chaplain of University Cadets, G 204, 1315 South Twenty-first street.
- LEMERE, HENRY BASSETT, M. D., Instructor in Ophthalmology and Otology, 400 Brandeis Theater Building, Omaha (M).
- LE ROSSIGNOL, JAMES EDWARD, Ph. D., LL.D., Director of School of Commerce and Professor of Political Economy and Commerce (Head of Department of Political Economy and Commerce) (1913, 1911), U 101, 1924 Prospect street (AS, G).
- LEWIS, GARLAND EDISON, B. Sc., A. M., Instructor in Chemistry, 1821 South Sixteenth street.
- LIEBER, CHARLES, M. D., Assistant in Experimental Surgery, Twenty-fourth and Ohio streets, Omaha (M).
- LINDLEY, RUTH, A. B., Scholar in Greek, U 215, 423 North Thirteenth street.

¹ Deceased.² Resigned.

- LINK, GEORGE KONRAD KARL, A. M., Associate Professor of Agricultural Botany (1914, 1910), P. I. 303, 430 North Twenty-fifth street (A).
- LOGAN, LEO JOSEPH, Chief Clerk, Secretary's Office, Adm. 102, 2704 P street (Adm).
- LOOMIS, ALICE MARIE, A. M., Professor of Home Economics (Head of Department of Home Economics) (1913, 1912), H. E. (AS, A).
- LORD, JOHN PRENTISS, M. D., F. A. C. S., Professor of Orthopedic Surgery, 830 City National Bank Building, Omaha (M).
- LOUGHRIDGE, JULIA EMMELINE, A. B., Assistant Principal of the School of Agriculture and Assistant Professor of Mathematics (1909, 1899), H. E. (A).
- LOVELAND, GEORGE ANDREW, A. M., LL. B., Professor of Meteorology (1913, 1894), and Section Director of the United States Weather Bureau, B 305, 1130 South Twentieth street (AS, G).
- LUCKEY, GEORGE WASHINGTON ANDREW, Ph. D., Dean of the Graduate School of Education, Professor of Education (Head of Department of Education) (1914, 1895), U 209, 1439 R street (AS, T, G).
- LYMAN, BLANCHE MARGARET, A. B., A. M., Fellow in American History, U 210, 1005 G street.
- LYMAN, RUFUS ASHLEY, A. M., M. D., Professor of Physiology and Pharmacology and Director of the School of Pharmacy (Head of Department of Physiology and Pharmacology) (1914, 1902), N 7, 1641 South Twenty-first street (M, Pharmacy).
- MCCLANAHAN, HARRY MONROE, M. D., Professor of Pediatrics, 1312 North Fortieth street, Omaha (M).
- MCCOMB, HAROLD EDGAR, A. M., Instructor in Physics (1911, 1911), B 115, 3225 Holdrege street (AS).
- MCCOMB, HARVEY E., Assistant in Horticulture at the North Platte Substation.
- MCCOMB, MOLLIE J., B. Sc., Fellow in Botany, U 106, 3225 Holdrege street.
- MCCORMICK, FLORENCE ANNA, Ph. D., Assistant Professor of Agricultural Botany and Assistant Botanist of the Experiment Station, P. I. 313, 3343 T street (A).
- MCGAHEY, FLORENCE IRWIN, A. B., Assistant Registrar, Adm. 103, 1200 H street (Adm).
- MCKELVIE, SAMUEL, Lecturer in Swine Judging (1909, 1909), Agr. H. 104, 3101 N street (A).
- MCPHEE, MARGUERITE CAMERON, A. M., Assistant Professor of Rhetoric (1914, 1905), U 107b, 1434 K street (AS).
- MALLORY, EUDORA SCOTT, Stenographer, Chancellor's Office, 350 North Twenty-ninth street (Adm).
- MANNING, ERNEST TIBBETTS, M. D., Instructor in Medicine, 409 Brandeis Theatre Building, Omaha (M).
- MANTOR, EDNA CLARA, A. B., Graduate Assistant in Zoology, N 208, 1347 Q street.
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- MARKWARD, HERBERT WILLIAM, B. Sc., Scholar in Botany, N 106, 401 South Fourteenth street.
- MARSHALL, WILLIAM WARNER, Executive Clerk of Nebraska Experiment Station, Agr. H. 201, 229 North Eleventh street (Adm).
- MARTIN, OSCAR ROSS, A. M., Assistant Professor of Accounting and Business Administration (1913, 1913), U 103, 1817 South Twenty-seventh street (AS).
- MAXEY, EDWIN, D. C. L., Ph. M., Professor of Public Law and Diplomacy (1906, 1906), Law Building, 1140 F street (L, AS, G).

- MEDLAR, ARTHUR W., A. B., Assistant in Farm Management.
- MELICK, FLORENCE HAZEL, Secretary to the Head of the Department of Mechanical Engineering, M. E. 203.
- MELICK, MARIAN MAUD, Secretary to Dean of the College of Engineering, M 204, Eighteenth and Robert streets.
- MENLOVE, LULU, Head of the Stenographic Bureau, Adm. 206, 605 South Tenth street (Adm).
- MEYER, CARL AUGUSTUS, A. B., Assistant in Physiology, 1711 K street, University Place.
- ¹ MEYER, JOHN RICHARD, Assistant in Registrar's Office, Adm. 103, 2401 Garfield street (Adm).
- MICKEY, CLARK EDWIN, B. Sc. in M. E., B. Sc. in C. E., Assistant Professor of Applied Mechanics and Machine Design (1913, 1908), M 101, 1337 South Eleventh street (E).
- MILLER, EDNA E., B. Sc., Graduate Assistant in Chemistry, 2163 South Seventeenth street.
- MILLER, HARRY MELBORN, Assistant to Purchasing Agent, Adm. 202, 1916 South street (Adm).
- MILROY, WILLIAM FORSYTH, M. D., Professor of Clinical Medicine and Physical Diagnosis, 468 Brandeis Theater Building, Omaha (M).
- ¹ MISKELL, BERNA ANNE, B. Sc. in Agr., Instructor in Home Economics (1912, 1912), H. E.
- MITCHELL, CLAUDE WILLIAM, A. B., A. M., Ph. G., Ph. D., Instructor in Physiology and Pharmacology, 2501 Farnam street, Omaha (M).
- ² MITCHELL, HELENE, A. B., Scholar in Rhetoric, U 107c, 1606 L street.
- MOGRIDGE, GEORGE, M. D., Lecturer in Arrested Development, Glenwood, Ia. (M).
- MOORE, BURTON EVANS, Ph. D., Professor of Physics (1907, 1896), B 113, 1900 Euclid avenue (AS, E, G).
- MOORE, JOHN CLYDE, A. B., S. Sc., M. D., Assistant Dispensary, Department of Pediatrics, 429 Brandeis Building, Omaha (M).
- MOORE, ROBERT LEO, Instructor in Forge Work, (1912, 1912), Mach. H., 349 North Twentieth street (A).
- MORISON, CHARLES CAMPBELL, A. B., Instructor in Surgery, (1910, 1910), 846 Brandeis Theater Building, Omaha (M).
- MORRILL, WALTER JEAN, M. F., Professor of Forestry (Head of Department of Forestry) (1912, 1912), N 105, 1849 Prospect street (A).
- MUNDY, LOUISE EASTERDAY, Instructor in Drawing and Painting, Gertrude Hall (AS).
- MUNSON, GRACE ESTHER, A. M., Instructor in Education (1912, 1912), U 209, 1439 R street (AS).
- MURTEY, AUREL MAY, Teacher of English, Teachers College High School, T, 240 North Sixteenth street.
- NEEDHAM, DAISY JEANETTE, A. M., Instructor in European History (1909, 1907), L 308, 2941 Q street.
- NELSON, ENOCH W., B. Sc., Scholar in Botany.
- ¹ NESBITT, ORPHA ELLEN, B. Sc., Instructor in Home Economics (1909, 1909), H. E., 1129 J street (A).
- NEUSWANGER, WILLIAM, B. A., Graduate Assistant in Physics, B 113, 321 North Seventeenth street.

¹ Resigned.

² Leave of absence

- NILSSON, JOHN RUDOLPH, M. D., Member of Dispensary Staff, Surgical Department, 1006 W. O. W. Building, Omaha (M).
- NOBLE, EDNA CLARA, B. L., Library Assistant, 2530 Q street.
- NOLL, WILLIAM CLARENCE, A. B., B. Ed., Scholar in Zoology, 2308 Vine street.
- NYE, HOMER L., Foreman, Experimental Substation, Culbertson.
- OHLSEN, EDITH, Instructor in Home Economics (1912, 1912), H. E. (A).
- OLLIS, CLYDE LEROY, Assistant to Purchasing Agent, Adm. 202, 820 South Thirteenth street (Adm).
- OLSEN, ANNA MARGARETHE, B. Sc., Assistant Professor of Home Economics (1914, 1912), H. E. (A).
- ¹ ORD, MAUDE RENNIE, Secretary to the Chancellor, Adm. 101, 1525 F street (Adm).
- ORR, HIRAM WINNETT, M. D., Assistant Professor of History of Medicine (1909, 1905), M 300, 519 First National Bank Building (M).
- ORR, RALPH WALDO, A. B., Scholar in Greek, U 215, 1955 Cherry street.
- OWEN, FRANK STYLES, M. D., Professor of Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- PAGE, ERNEST CLIFFORD, Ph. M., LL. B., Lecturer in Medical Jurisprudence, 815 New Omaha National Bank Building, Omaha (M).
- PARK, BESSIE LOUISE, Assistant Professor of Physical Education (1914, 1913) S 103, 2125 South street (AS).
- PATTON, JAMES McDOWELL, A. M., M. D., Instructor in Ophthalmology and Otology (1909, 1909), 563 Brandeis Building, Omaha (M).
- PAYNE, WALTER SCOTT, Instructor in Machine Shops (1901, 1901), M 108, University Place (E).
- ¹ PERIN, SENATOR WILLIS, Superintendent of the University Farm, Agr. H. 205, University Farm (A).
- PERSINGER, CLARK EDMUND, A. M., Professor of American History (1913, 1901), U 210, 1335 B street (AS, T, E, G).
- PERUSSE, FRANCIS JOSEPH, Ph. C., Assistant Professor of Pharmacy (1913, 1908), U 3, 823 North Twenty-sixth street.
- PETERSON, ALFRED OLAF, M. D., Instructor in Internal Medicine, 203 Range Building, Omaha (M).
- PETERSON, HULDAH, B. S., Assistant in charge of Boys' and Girls' Clubs, Agr. H. 301.
- PFEIFFER, LAURA BELLE, Ph. D., Assistant Professor of European History (1914, 1903), Temple, The Orlo (AS).
- PICKUP, NELLIE BUNCHER, Assistant in Department of English Language and Literature, 725 South Tenth street.
- PIER, HAROLD BROCKWAY, Instructor in Animal Husbandry.
- PILSBURY, LAURENCE BELL, A. B., M. D., Assistant Professor of Bacteriology and Pathology (1914, 1905), N 306, Asylum, R. F. D. No. 8.
- PLUM, HARLEY MARTIN, B. A., M. A., Assistant Professor of Agricultural Chemistry (1913, 1913), E. S., 2603 Vine street (A).

¹ Resigned.

- POLLARD, CHARLES WHITNEY, A. B., M. D., Assistant Professor of Obstetrics, 2962 Pacific street, Omaha (M).
- POOL, RAYMOND JOHN, Ph. D., Professor of Botany, Curator of the Herbarium (1914, 1907), N 102a, 1451 Q street (AS).
- POPE, WALTER LYNDON, A. B., J. D., Assistant Professor of Law (1914, 1914), Law 206, 709 First National Bank Building (Law).
- POTTS, JOHN BEEKMAN, M. D., Clinical Assistant in Diseases of the Eye and Ear, in Dispensary, Omaha (M).
- POUND, LOUISE, Ph. D., Professor of the English Language (1912, 1900), U 311, 1632 L street (AS, G).
- POWERS, JOSEPH HORACE, Ph. D., Professor of General and Experimental Zoology (1910, 1905), N 208a, 3150 R street (AS, G, M).
- POYNTER, CHARLES WILLIAM McCORKLE, B. Sc., M. D., Professor of Anatomy (1910, 1905), 4010 Harney street, Omaha (M).
- POYNTER, CHARLES WILLIAM McCORKLE, B. Sc., M. D., Professor of Anatomy (Head of Department of Anatomy) (1910, 1905), 4010 Harney street, Omaha (M).
- PUGSLEY, CHARLES WILLIAM, B. Sc., Director of Extension Service in College of Agriculture (1914, 1908), Agr. H. 302, 3260 Starr street (A, G).
- ¹ PUTNAM, JOHN JACOB, A. M., Adjunct Professor of Bacteriology and Pathology (1912, 1911), N 306, 327 North Eleventh street (M).
- QUINLAN, MARGARET, F., Stenographer and Clerk, Omaha.
- RABER, BENEDICT FREDERICK, B. Sc. in M. E., Associate Professor of Mechanical Engineering (1913, 1912) M. E. 207, 2600 Q street (E).
- RAIL, ELLIS, B. Sc. in A., Professor of Agriculture, Curtis.
- RASMUSEN, JESSE EPHRAIM, M. E., Associate Professor of Engineering Drawing (1914, 1907), M 401, 1444 D street (E).
- RATCLIFF, JOHN ANDERSON, B. Sc., Assistant Professor of Experimental Agronomy (1914, 1912), 1326 North Twenty-ninth street (A).
- ¹ RAYMOND, ANAN RICHARD, A. B., Assistant in Chancellor's Office, Adm. 101, 1544 Q street (Adm).
- RAYMOND, CARRIE BELLE, Director of Music (1907, 1894), T, 1414 L street (AS).
- REED, ALBERT ALISON, A. M., Inspector of Accredited Schools and Professor of Secondary Education, Acting Director of University Extension (Head of Department of Secondary Education) (1914, 1908), Adm. 203, 1251 South Twenty-seventh street (T, AS).
- REED, GUY EUCLID, A. B., Assistant Director of Athletics, Secretary of Alumni Association (1914, 1912), 2500 P street.
- REESE, ELIZABETH IRENE, A. B., A. M., Assistant Professor of Romance Languages and Literatures (1914, 1905), U 303, Gertrude Hall (AS).
- REIN, CLIFFORD LOUIS, A. B., Assistant to the Chancellor, Adm. 101, 434 North Seventeenth street (Adm).
- REYNOLDS, CLARENCE CLARKE, Assistant in Physical Education, Armory, 1325 R street.
- RICHARDS, GRACE, A. B., Instructor in Home Economics, Curtis.

¹ Resigned.

- RIDDERVOLD, ADOLPH STORM, Assistant Professor of Civil Engineering (1911, 1911), M 203
217 North Twenty-fifth street (E).
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- ROBBINS, CHARLES AUGUSTUS, Ph. M., LL. B., Professor of Law (1909, 1909) Law Building,
1825 G street (L).
- ROMER, PETER K., A. B., Scholar in Greek, 2240 P street.
- ROOD, ADELAIDE C., Assistant in Library, L, 856 North Twenty-fifth street (Adm).
- ROOD, GRACE, Assistant in Library, L, 856 North Twenty-fifth street (Adm).
- ¹ ROST, CLAYTON ORD, A. M., Assistant in Agricultural Chemistry, E. S. 105, 1217 North
Twenty-fifth street.
- RUBENDALL, CLARENCE, B. Sc., M. D., Clinical Assistant in Diseases of Nose and Throat,
in Dispensary, Omaha (M).
- RUNGE, LULU L., A. M., Instructor in Mathematics (1911, 1909), M 303, 1527 M street (AS.)
- RUSK, HESTER MARY, A. B., Instructor in Agricultural Botany, P. I. 312, 3201 Holdrege street.
- ¹ RUTLEDGE, EDWARD MARKWOOD, A. B., Registrar and University Publisher, Adm. 103,
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- ² RYAN, SARAH AGNES, A. M., Instructor in Teaching of German, Teachers College High
School (1912, 1912), T., Havelock.
- SADILEK, WALTER BYRON, A. B., Supervisor of Assembly Room, Teachers College High
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- SANFORD, FREDERICK WARREN, A. B., Assistant Professor of Roman History and Literature
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- SAWYER, HELEN AGATHA, A. B., Assistant in Home Economics, H. E.
- SCHALEK, ALFRED, A. M., M. D., Professor of Dermatology and Genito-urinary Diseases,
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- SCHMELA, JOHN. D. V. S., Assistant in Hog Cholera Serum Production, 3566 Leavenworth
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- SCHNEIDER, FRANKIE, Executive Clerk, Curtis.
- SCHRAG, ANDREW D., Ph. D., Associate Professor of Germanic Languages and Literatures
(1913, 1908), U 108, 1230 L street (AS).
- SCHRAMM, ECK FRANK, A. M., Assistant Professor of Geology (1913, 1908), Mus. 301, 320
Y. M. C. A. Building.
- SCHULTZ, OSCAR JOHN THEODORE, A. B., M. D., Professor of Pathology and Bacteriology
(1913, 1913), 401 North Thirty-first street, Omaha (M).
- SCOTT, ROBERT DOUGLAS, A. M., Assistant Professor of English Dramatic Literature (1912,
1911), L 301, Melick Court (AS).
- SEARS, PAUL BIGELOW, B. Sc., Scholar in Botany, N 106, 602 North Fifteenth street.
- SEATON, LAWRENCE FROYD, B. Sc. in M. E., Assistant Professor of Agricultural Engineering
(1913, 1912), Mach. H., 3421 Starr street.
- SHELDON, ADDISON ERWIN, A. M., Special Lecturer in Political Science (1909, 1908), and
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¹ Resigned.

² Leave of absence.

- SHERMAN, LUCIUS ADELNO, Ph. D., LL. D., Dean of the Graduate College and Professor of English Language and Literature (Head of Department of English Language and Literature) (1906, 1882), Adm. 104, 1234 J street (AS, T, G).
- SHERWOOD, RAYMOND GESSELL, B. Sc., Assistant in Microscopic Anatomy, 4204 Harney street, Omaha.
- SHIDNER, RUBY MAUDE, Stenographer, Registrar's Office, Adm. 103, 1327 J street (Adm.).
- ¹ SHONKA, ROSE, Instructor in the School of Agriculture.
- SKINNER, CLARENCE AURELIUS, Ph. D., Professor of Physics (Head of Department of Physics) (1912, 1899), B 114, 1602 Poplar street (AS, E, G).
- SLAYMAKER, PHILIP KUHNS, M. E., Professor of Machine Design (1914, 1907), M 309, 425 South Twenty-sixth street.
- SMITH, CHAUNCEY WILLIAM, Instructor in Physics, School of Agriculture, 1440 Q street (AS).
- SMITH, JOSEPH EARL, A. B., Fellow in Philosophy, L 110, 2748 Q street.
- SNYDER, WILLIAM PATTON, A. B., M. S., Superintendent of North Platte Experimental Substation, North Platte (Adm.).
- SOMERS, ANDREW BARTHOLOMEW, M. D., Professor of Obstetrics, 423 North Fortieth street, Omaha (M).
- SORENSEN, CHRISTIAN ABRAHAM, A. B., Scholar in Political Science and Sociology, Law 106, 1035 J street.
- SPAFFORD, RUSSELL RICHARD, Assistant in Instructional Agronomy.
- SPENCER, BERTRAM JOHN, Demonstrator and Teacher of Construction in Physics (1908, 1905), N 117, 1325 North Twenty-fourth street (AS).
- SQUIRES, RUTH MADELINE, Assistant in Bacteriology, 2018 A street.
- STENGER, CECILIA CAROLINE, A. B., Instructor of Romance Languages, 1430 R street.
- STEPHENS, GEORGE ASBURY, Ph. D., Assistant Professor of Political Economy (1912, 1909), U 101, 118 North Twenty-ninth street (AS).
- ¹ STEWART, CHARLES ORAN, A. M., Instructor in Romance Languages (1912, 1912), U 311, 229 North Seventeenth street (AS).
- STIEHM, EWALD ORTWIN, A. B., Professor and Director of Athletics (Head of Department of Athletics) (1914, 1911), G, 2121 Sheridan Boulevard (AS).
- STOKES, ARTHUR CHARLES, B. S., M. D., Associate Professor of Genito-Urinary Surgery and Surgical Anatomy, 503 Brandeis Building, Omaha (M).
- STOUT, OSCAR VAN PELT, C. E., Dean of the College of Engineering and Professor of Civil Engineering (Head of Department of Civil Engineering) (1912, 1891), 2003 South Twenty-third street (E, G).
- STUFF, FREDERICK AMES, A. M., Litt. D., Professor of English Language and Literature (1912, 1902), L 301, 434 South Twenty-eighth street (AS, T, G).
- STURDEVANT, LA ZELLE BRANTLEY, A. M., M. D., Associate Professor of Animal Pathology (1913, 1906), Vet. 202, 2757 Holdrege street (A).
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- SWENK, MYRON HARMON, A. M., Professor of Economic Entomology (1914 1908). and Assistant State Entomologist, E. S. 207, 3028 Starr street (A, AS).

¹ Resigned.

- SWEZEY, GOODWIN DELOSS, A. M., Professor of Astronomy (Head of Department of Astronomy) (1905, 1894), Observatory, 2600 R street (AS, G).
- SWITZER, JOHN SINGLETON, Major 4th Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets (Head of Department of Military Science and Tactics), (1914, 1914), G 204.
- TAYLOR, CHARLES WILLIAM, A. B., Professor of School Administration and Principal of the Teachers College High School (Head of Department of School Administration) (1911, 1911), T, 1529 South Twenty-fourth street.
- TAYLOR, GERTRUDE S., Stenographer in Agricultural Extension Department, 1726 Q street.
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- THOMAS, JAMES LLOYD, B. Sc., Assistant in Agronomy, 853 North Thirtieth street.
- THOMPSON, BESSIE ENYEART, Secretary University Extension and High School Inspection, Adm. 203, 2610 D street (Adm).
- THOMPSON, HARRY LANDIS, B. Sc., Assistant Instructor in Pharmacy, N 5, 636 South Tenth street.
- ¹ THORNBURG, BERTHA WILHELMINA, Secretary Geological Survey, 3225 Hitchcock street.
- TIBBETS, ADDISON SEABURY, B. C. E., Lecturer on Professional Ethics, Richards Block (L).
- TOWNE, SOLON RODNEY, A. M., M. D., Professor of Hygiene and State Medicine, 446 Brandeis Building, Omaha (M).
- TRUMAN, REX, Assistant in Agriculture, Teachers College High School, 1440 Q street.
- ¹ TRUMBULL, ROBERT SAMUEL, A. M., Adjunct Professor of Agricultural Chemistry (1910, 1908), E. S. 202, 3002 W street (A).
- TUCKERMAN, LOUIS BRYANT, JR., A. B., Associate Professor of Theoretical Physics (1913, 1906), B 119, 2023 South Twenty-fourth street (E, G).
- TUTTLE, SAMUEL JOHNSON, A. M., LL. B., Professor of Law (1909, 1909), L, Security Mutual Building.
- UPSON, FRED WILBERT, B. Sc., M. A., Ph. D., Professor of Agricultural Chemistry (Head of Department of Agricultural Chemistry) (1913, 1913) E. S. 101, 2600 R street.
- VAN BUREN, FREDERICK ARTHUR, M. D., Lecturer in Anatomy, 2552 Ames avenue, Omaha (M).
- VAN KIRK, MARY STANDERVICK, Instructor in Home Economics, H. E. (A).
- VASEY, HARVEY E., B. Sc., Assistant in Agricultural Botany, P. I., 2601 Q street.
- VIRTUE, GEORGE OLIEN, Ph. D., Professor of Political Economy and Commerce (1909, 1909), U 101, 1415 C street (AS).
- VORE, JULIET MITCHELL, Assistant in Registrar's Office, 640 South Thirtieth street (Adm).
- VOSS, ADOLPH MAX, A. B., Assistant Inspector of Accredited Schools, Adm. 203, 2741 Randolph street (Adm).
- VOTAW, WILLIAM WARD, Assistant Superintendent of Grounds and Buildings, Adm. 207, 3044 Q street (Adm).
- VRANA, EDWARD HENRY, Assistant in Mechanical Engineering, M. E. 202, 1322 S street (E).
- WAITE, HERBERT HAROLD, A. M., M. D., Professor of Bacteriology and Pathology (Head of Department of Bacteriology and Pathology) (1907, 1902), N 306, 2144 B street (AS, M, G).

¹ Resigned.

- WALKER, EARL FISK, A. B., Ph. G., Scholar in Chemistry, 310 East Thirteenth street, University Place.
- WALKER, ELDA REMA, Ph. D., Associate Professor of Botany (1913, 1906) and in charge of Botanical Library, N 103, 245 North Twenty-fifth street (AS).
- WALKER, LEVA BELLE, A. M., Associate Professor of Botany (1914, 1907) and in charge of Botanical Storeroom, N 103, 245 North Twenty-fifth street (AS).
- ¹ WALLACE, CHARLES WILLIAM, Ph. D., Professor of English Language and Literature (1912, 1901), L 301, (AS, G).
- WARREN, CHARLES RAYMOND, Clerical Assistant in Secretary's Office, 628 North Thirteenth street (Adm).
- WATSON, MERTIE BELL, Stenographer, E. H., 2201 Vine street.
- WEBSTER, EDITH LENORA, A. B., Instructor in Geology (1912, 1909), Mus. 201, 534 North Twelfth street (AS).
- ¹ WEBSTER, HUTTON, Ph. D., Professor of Social Anthropology (1907, 1907), Law, 641 South Thirteenth street (AS, G).
- WEINARD, FRED F., Assistant in Botany.
- WESTERMANN, MAX, Assistant Secretary of the Board of Regents, Adm. 102, 1535 C street (Adm).
- WHERRY, WILLIAM PENALUNA, M. D., Instructor in Laryngology and Rhinology, 471 Brandeis Building, Omaha (M).
- ² WHITE, GEORGE CLEVELAND, A. M., Assistant Professor of Dairy Husbandry (1912, 1912), D. H., 3220 Starr street (A).
- WHITE, GEORGE F., Assistant to Superintendent of Grounds, Adm. 207, 514 East Fourteenth street, University Place (Adm).
- WHITEHEAD, LUCRETIA FLEMING, A. B., Fellow in Germanics, 1619 R street.
- WHITFORD, ARLEY CLAUD, Ph. B., Fellow in Geology, Museum.
- WIGTON, HARRISON ALONZO, B. Sc., M. D., Member of Dispensary Staff, Department of Pediatrics, 1006 W. O. W. Building, Omaha (M).
- ³ WILCOX, EDWIN MEAD, Ph. D., Professor of Agricultural Botany and Botanist of the Experiment Station (Head of Department of Agricultural Botany) (1911, 1908), P. I., 3261 R street (A, G).
- WILLARD, WILLIAM ALBERT, Ph. D., Professor of Histology and Embryology (1909, 1902), 4012 Harney street, Omaha (M).
- WILLIAMS, CYRUS VANCE, A. M., Superintendent of Nebraska School of Agriculture, Curtis.
- WILLIAMS, TERRY ARTHUR, Agent, Student Activities, Adm. 7, 3205 Vine street (Adm).
- WILLIS, EUNICE AMY, Assistant in Stenographic Bureau, Adm. 206, 2228 S street (Adm).
- WILSEY, REX BISHOP, B. Sc., Graduate Assistant in Physics, B 116, 1215 G street.
- WILSON, HARRIET, A. B., Library Assistant, L, 1635 F street (Adm).

¹ Leave of absence.

² Resigned.

³ Joint Director of a state bureau for the study of Plant Diseases and Destructive Insects in connection with the Experiment Station.

- WILSON, HENRY H., A. M., LL. M., Professor of Law (1900, 1891) Law Building, 1928 E street (L).
- WILSON, MAUD MATHES, B. Sc., Instructor in Home Economics, H. E. 201, 1905 South Sixteenth street.
- WOLCOTT, ROBERT HENRY, A. M., M. D., Junior Dean of the College of Medicine and Professor of Zoology (Head of Department of Zoology) (1913, 1894), N 206, 2100 B street (AS, M, T, G).
- WOLFE, HARRY KIRKE, Ph. D., Professor of Philosophy (Head of Department of Philosophy) (1909, 1906), L 111, 1727 J street (AS, G, T).
- WOOD, IVAN DALEY, B. Sc. in C. E., Instructor in Agricultural Engineering (1914, 1912), Mach. H. 205, 307 North Twenty-fourth street (A).
- WOODWARD, EDWIN GARVER, B. S., A. M., Assistant Professor of Dairy Husbandry (1914, 1913), D, 3045 Dudley street (A).
- WOOSTER, MARGARET, A. B., Scholar in Philosophy.
- WYER, MALCOLM GLENN, A. B., M. L., B. L. S., Librarian, L, 2632 Summer street (Adm).
- YOUNG, HORACE J., B. Sc., Assistant Professor of Agronomy (1913, 1911), E. S. 106, 405 West Nineteenth street, University Place.
- ¹ ZIMMER, JOHN TODD, A. M., Field Expert in Entomology (1911, 1911), Forty-second and Holdrege streets (A).
- ZIMMER, MARY VIRGINIA, A. B., Assistant Professor of Mathematics in the School of Agriculture, Agr. H. 207, Forty-second and Holdrege streets (A).

¹ Resigned.

General Information Concerning the University

THE UNIVERSITY

Colleges and Schools of the University. By statute, the University of Nebraska comprises the following colleges and schools:

The Graduate College

The College of Arts and Sciences, including the Schools of Fine Arts and Commerce

The Teachers College, including the Teachers College High School

The College of Engineering

The College of Agriculture, including the Schools of Agriculture

The College of Law

The College of Medicine,¹ including the School of Pharmacy

Information as to the object and work of each of these colleges may be found by consulting the portion of the catalog devoted to each.

In addition to the foregoing, the University Board of Regents is, by law, the governing board for the Nebraska Agricultural Experiment Station, and of the Experimental Substations at North Platte, Culbertson, Valentine and Scottsbluff; it has entrusted to its care the superintendency of Farmers' Institutes; and the state has created a bureau for the study of Plant Diseases and Destructive Insects with the professors of Agricultural Botany and of Entomology respectively in charge as State Agricultural Botanist and State Entomologist.

Public Service Activities of the University. The University is closely related to most lines of state development, several professors being connected with various surveys, commissions and other state activities. The survey and statistical department of the state are under the advisory authority of the Nebraska Conservation and Public Welfare Commission, composed of John H. Morehead, Governor; Samuel Avery, Chancellor of the University; G. E. Condra, Director of the Nebraska Conservation

¹ The Lincoln Dental College has a contract with the University under which its students matriculate as University students for the purpose of instruction in the sciences.

and Soil Survey; W. R. Mellor, Secretary of the State Board of Agriculture; A. E. Sheldon, Director of the Legislative Reference Bureau.

The Nebraska Conservation and Soil Survey, the State Geological Survey, and the State Botanical Survey are under the control of the Board of Regents and directed by University professors. The Conservation and Soil Survey studies and reports upon the natural resources, including water, forest, soil and road materials. It also makes studies of selected industries and industrial problems. The Geological Survey co-operates with the Federal Government in geological work and topographic mapping. The Botanical Survey is in charge of special plant studies and plant diseases.

The Farmers' Institutes, the State Entomological work, the distribution of hog cholera serum, and a number of other similar functions are directed from the University.

The State Legislative Reference Bureau is housed on the campus and is closely connected with the work of several state commissions. University professors are members of the State Tax Commission, the Minimum Wage Commission, the Commission for revising the School Laws of the state, the Advisory State Highway Commission, and the Water Power Commission.

Practically every department is in touch with the educational, administrative and executive activities of the state. The State High School Inspector is a member of the faculty. University extension courses are directed from both campuses. Many professors and administrative officers lecture in the state on topics related to their work and department.

The public service activities of the University bring the professors into close contact with state development and give opportunity for advanced students to carry on special investigations, under the direction of the University.

The state legislature of 1911 made provision for the Nebraska School of Agriculture, under the management of the Board of Regents, to be situated at Curtis. The legislature of 1913 appropriated funds for equipping and maintaining the school, which was opened in September, 1913.

Equipment of the University. The grounds and buildings of the University are distributed among three groups: (1) the original campus, situated in the capital city of Lincoln, with its main entrance at Eleventh and R streets, and containing seventeen buildings devoted to academic, law, medicine, and engineering instruction; (2) the University Farm, of three hundred and twenty acres, two and a half miles northeast of the original campus, containing ten buildings devoted to instruction in agriculture, home economics, and forestry; (3) the Medical College building in Omaha, at Forty-second and Dewey Avenue. Adjacent to this campus and on land

belonging to the state is the new Child-Saving Institute, the clinical facilities in which are under the control of the University. The various libraries, laboratories, museums and collections of the University, available for use by students of the University, are described in those portions of the catalog devoted to the colleges or schools with whose work they are chiefly connected.

Government of the University. The chancellor, chosen by the board of regents, is the chief executive officer of the University; subject to the rules and orders of the board he has both pedagogical and business supervision over the University as a whole, over the various colleges, and over all the affairs and interests of the University. For each of the colleges within the University the board of regents elects a dean, to be the presiding officer of the faculty of his college and to perform such other duties as the board or the faculty of his college may require. The faculty of each college, subject to the chancellor and the board, determines upon all matters relative to the internal affairs of its college. A University senate, corresponding to the "general faculty" of other universities, and subject to the chancellor and board, determines questions which concern more than one college or the University as a whole. The chancellor, deans, heads and acting heads of departments, and such other members of staff as the Regents may name are voting members of the senate.

Revenues of the University. By an amendment in 1899 of the original act of incorporation (1869), a tax of one mill upon the grand assessment roll of the state is provided for the support of the University. Added to this are incomes from land leases and sales under the land-grant act of Congress of 1862 for the benefit of the Industrial College,¹ and under the enabling act reserving seventy-two sections of land for the State University; interest on permanent fund investments; and the money grant by the act of Congress, commonly known as the Morrill Act, August, 1890, and by the Hatch Fund Act of 1887, and the Adams Act of 1906 supplemental thereto. In addition to this are the fees paid by students for various purposes. The state legislature of 1913 appropriated a three-fourths mill levy for six years for permanent development of the University, leaving the location to be determined by a vote of the people at the general election in 1914.

¹ In 1909, the Industrial college was erected into the colleges of Agriculture and Engineering by the state legislature; the same legislature authorized the creation of the Graduate college and the Teachers college.

History of the University. The University of Nebraska was founded by an act of the Nebraska legislature, effective February 15, 1869. The subsequent new constitution of 1875 recognized the University as thus established, placed it under the general control of an elective board of six regents, and made certain fundamental provisions as to its organization and administration. The next legislature (1877) revised the act of 1869 in accordance with the provisions of the new constitution. Under this revised act (Compiled Statutes of Nebraska, Chapter 87), as slightly amended by the legislature of 1909,¹ the University is at present organized and operating.

THE UNIVERSITY YEAR

The year's work of the various colleges and schools of the University in general falls into the following subdivisions:

The First Semester, beginning the third Wednesday of September, and continuing eighteen weeks. The Mid-Winter Commencement, for those finishing their work at the end of a first semester, is held on University Charter Day (February 15), except when it falls on Saturday or Sunday, in which case the exercises are held on the preceding Friday or the succeeding Monday.

The Second Semester, beginning about February 1, and continuing eighteen weeks. The Spring Commencement, for those completing a course at the end of a second semester, occurs on Thursday of the week of the regular June meeting of the Board of Regents. This meeting is held on the first Tuesday after the first Wednesday in June of each year.

The Summer Session, usually beginning the week of the spring commencement and continuing eight weeks. Graduation exercises for those completing their University course at the end of a summer session are held on the last Friday of the summer session.

ADMISSION TO THE UNIVERSITY

Admission to the University is gained only through registration in some one of its seven colleges or four schools. The requirements for admission to these vary only in small degree, and may also be found by consulting the portion of the catalog devoted to the college or school which the student desires to enter. The requirements for admission to the various colleges are as given below. An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least

¹ See foot-note on page 35.

eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks; in laboratory courses without recitation, the equivalent of fifteen single periods each week are required.

REQUIREMENTS FOR ADMISSION TO ALL UNDERGRADUATE COLLEGES

The following table of entrance requirements became effective September 1, 1912, for all undergraduate colleges of the University:

Required Subjects—	Points
English.....	4
History (European) <i>a</i>	2
Language (Foreign) <i>b</i>	6
Mathematics <i>c</i>	4
Science (Laboratory) <i>d</i>	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school.....	12
Total.....	30

- a* History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- b* Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- c* Mathematics: For entrance to the College of Agriculture four points are required. Advanced Algebra and Solid Geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering 6 points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- d* Science: It is recommended that Physics be offered in meeting the science requirement.
For entrance to the College of Agriculture both Physics and Chemistry are desirable, but either a full year of Physics or of Chemistry should be offered. Students offering only a half year of either cannot continue their study in the College without registering for the elementary course. A second year of laboratory science may be offered in place of a third year of foreign language.

Accredited Schools. The University maintains a list of "accredited" secondary schools whose graduates are admitted to any college or school of the University (and to nearly all of the colleges or universities of the United States) without entrance examinations in those subjects whose completion within such schools is properly certified. Unless a graduate of an "accredited" school, a candidate for admission must be prepared to take entrance examinations in those subjects in which he desires entrance credits. "Accredited" schools are such as are, under annual inspection by the University inspector of accredited schools, found to have a well-balanced program of studies, satisfactory laboratory equipment and library facilities, and a teaching force adequate in number and competent in scholarship and professional training to accomplish the work they are undertaking. This list of accredited schools is published yearly in the University Calendar, the University Journal, and the High-School Manual. At present there are two lists of accredited schools: (1) Those which prepare fully for the first year of University work; and (2) those preparing for the lowest classes carried at the University. Any public or private high school or academy desiring to be placed on the accredited list should make request to the Inspector of Accredited Schools. The High-School Manual, giving detailed information in regard to accredited schools, including general and departmental suggestions as to courses of study and methods of instruction, and the list of accredited schools, is sent upon application to the Registrar.

Certificates of graduation from schools which are members of the North Central Association of Colleges and Secondary Schools and of Accrediting Associations of equal rank will entitle the holder to admission without examination.

Four-Year Accredited Schools. The following four-year secondary schools were accredited to the University for the year 1912-13 to receive

not to exceed 32 points of entrance credit, according to the work of the individual graduate:

Adams	Central City	¹ Fremont
Ainsworth	Chadron	¹ Friend
Albion	Chester	¹ Fullerton
Alliance	Clarks	Gates Academy
Alma	Clay Center	(Neligh)
Ansley	¹ Columbus	¹ Geneva
Arapahoe	Cook	Genoa
Arlington	Cotner Academy	Gering
¹ Ashland	(Bethany)	Gibbon
Atkinson	Cozad	Giltner
¹ Auburn	Crawford	Gordon
¹ Aurora	Creighton	Gothenburg
Bancroft	Creighton Academy	¹ Grand Island
Bartley	(Omaha)	Grand Island
Battle Creek	¹ Crete	Academy
¹ Beatrice	Culbertson	Greeley
Beaver City	Dana Academy	Greenwood
Beaver Crossing	(Blair)	Gretna
Bellevue Academy	Davenport	Guide Rock
Benkelman	¹ David City	Hardy
¹ Benson	Diller	Hartington
Bertrand	¹ Doane Academy	Harvard
Bladen	(Crete)	¹ Hastings
¹ Blair	Dodge	¹ Hastings Academy
Bloomfield	Edgar	¹ Havelock
Bloomington	Edison	¹ Hebron
Blue Hill	Elgin	¹ Holdrege
Blue Springs	Elmwood	Hooper
Brady	Emerson	Humboldt
Bridgeport	Eustis	Immaculate Con-
Broken Bow	Exeter	ception Academy
¹ Brownell Hall	¹ Fairbury	(Hastings)
(Omaha)	Fairfield	Indianola
Burwell	Fairmont	Jackson
Butte	¹ Falls City	¹ Kearney
Cambridge	¹ Franklin	Kenesaw
Cedar Rapids	¹ Franklin Academy	Kimball County

¹ Accredited by the North Central Association of Colleges and Secondary Schools for 1913.

Laurel	Orchard	Schuyler
Lawrence	Ord	Scottsbluff
¹ Lexington	Orleans	Scribner
Liberty	Orleans Seminary	¹ Seward
¹ Lincoln	¹ Osceola	Shelby
Lodge Pole	Overton	¹ Shelton
Louisville	Oxford	Sidney
Loup City	Papillion	Silver Creek
Luther Academy	Pawnee City	¹ South Omaha
(Wahoo)	Pender	Spalding Academy
Lyons	Pierce	Spencer
¹ McCook	Pioneer Union	Springfield
Madison	(Bellevue)	Stanton
Mead	Plainview	Sterling
Meadow Grove	¹ Plattsmouth	Stratton
Merna	Ponca	Stromsburg
Minden	Randolph	Stuart
Mitchell	Ravenna	¹ Superior
Mt. St. Mary's	Red Cloud	Sutton
Seminary (Omaha)	Sacred Heart	Syracuse
¹ Nebraska City	Academy (Omaha)	Table Rock
¹ Nebraska Military	Sacred Heart	¹ Teachers College
Academy	(Omaha)	High School,
(Lincoln)	St. Bernard	The University
¹ Nebraska Wesleyan	Academy	of Nebraska
Academy	(Nebraska City)	¹ Tecumseh
(University Place)	St. Catherine	¹ Tekamah
Neligh	Academy	Tilden
Nelson	(Jackson)	Trenton
Newman Grove	St. Edward	Ulysses
¹ Norfolk	St. Mary's Academy	Union College
North Bend	(O'Neill)	Academy
¹ North Platte	St. Paul	(College View)
Oakdale	St. Theresa	¹ University Place
Oakland	(Lincoln)	Valentine
Ogallala	School of Agriculture,	Valley
Ohio	The University	¹ Wahoo
¹ Omaha	Nebraska	Wakefield
O'Neill	Sargent	Waterloo

¹ See foot-note on page 39

¹ Wayne	West Point	Wymore
Weeping Water	Wilber	¹ York
Weeping Water	Wisner	
Academy	Wood River	

By approved action of the University Senate in June, 1911, the following was adopted:

1. After September 1, 1912, twenty-eight points shall be the minimum requirement for conditional admission to the Colleges of Arts and Sciences, Engineering, and Agriculture, in the University.

2. There shall be maintained a list of Junior Accredited Schools, on the basis of three years of secondary school work. The graduates of these schools may receive conditional admission to the University upon the completion of sufficient additional work in an accredited school to secure the minimum of twenty-eight points.

Junior Accredited Schools. The following secondary schools were accredited to the University for the year 1912-13 to receive from 22 to 28 points of entrance credit, according to the length of the course and the work of the individual graduate:

Alexandria	Grafton	Odell
Beemer	Herman	Osmond
Brock	Hickman	Palmyra
Campbell	Hildreth	Pilger
Cedar Bluffs	Holbrook	Republican City
Chappell	Howells	Riverton
Clarkson	Hubbard	Rulo
Coleridge	Humphrey	Rushville
College View	Juniata	Shickley
Cortland	² Kearney Military	Sioux
Craig	Academy	Sutherland
Curtis	Leigh	Swanton
Dawson	Lynch	Talmage
DeWitt	McCool Junction	Tobias
Doniphan	Maxwell	Utica
Dorchester	Milford	Verdigre
Douglas	Monroe	Wausa
Dunbar	Morrill	Western
Ewing	Naponee	Weston
Florence	Newcastle	Wilsonville
Ft. Calhoun	North Loup	Winside

¹ See foot-note on page 39.

² Additional credits may be secured by examination.

ADMISSION AS ADULT SPECIAL STUDENTS TO ALL UNDERGRADUATE COLLEGES

Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. This should be done at least one month in advance of the opening of the candidate's first semester. Credentials submitted for evaluation are retained in our permanent file as the basis on which statement of standing is given. Upon graduation they may be calimed by the student. On receipt and evaluation of the credentials the candidate will be informed of his standing and as soon as possible definite instructions regarding the various steps in registering will be mailed in order that the candidate may know in advance just what will be required of him when he presents himself for registration. These instructions should be studied very carefully. Candidates who have not been advised regarding registration should present themselves at the Registrar's office (Administration Hall) upon arrival at the University.

Registration is governed by certain regulations and restrictions in each college and school of the University, and those of the college the candidate expects to enter should be studied carefully before the work of registration is undertaken.

ADVANCED STANDING TO ALL UNDERGRADUATE COLLEGES

Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regular organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence and in the senior year at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

FEES AND EXPENSES

The incidental, library and matriculation fees will not be refunded in any case except when charged through official error. No laboratory or tuition fees or any portion thereof will be refunded to a student after the beginning of the fourth week from the date of his registration and refund will be made only upon written application to the Registrar, stating reasons

and approved by the head of the department concerned, presented at the time of withdrawal from class or from the University together with the receipt for fees issued by the Secretary. Except in extraordinary cases not more than one-third of the laboratory fees will be refunded after the student has attended the laboratory.

UNIVERSITY FEES ¹

General

SCHOOL OF AGRICULTURE

Winter course, registration.....	\$4.00
Regular course, incidental, per year.....	6.00
Special registration fee.....	2.00
(Laboratory fees according to course.)	

CERTIFICATE

For all special courses.....	1.00
Teachers' certificate (with cover).....	2.00

DIPLOMA

Diploma fee, first degree.....	5.00
Diploma fee, for advanced degrees.....	10.00
Diploma fee, in absentia or cum laude, additional.....	10.00

EXAMINATION (SPECIAL)

Each course, general colleges.....	1.00
Each subject, Law College.....	2.00
Advanced standing, Law College.....	10.00

FINE ARTS

For Students Who Have Not Satisfied Entrance Requirements

Drawing and Painting, including use of studio:

One lesson a week, each semester.....	10.00
Students under 16 years, one lesson a week, each semester.....	6.00
Two lessons a week, each semester.....	18.00
Three lessons a week, with use of studio daily, each semester....	25.00

China Painting, including use of studio:

One lesson a week, each semester.....	12.00
Two lessons a week, each semester.....	23.00
Three lessons a week, each semester.....	33.00

¹ No checks or drafts are accepted by the Secretary. Payment must be made in cash.

GENERAL INFORMATION

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TEACHERS COLLEGE HIGH SCHOOL

Tuition, each semester.....13.50

Tuition,¹ special subjects:

One subject, \$8; two subjects, \$15; three or more subjects, \$20.

INCIDENTAL

Incidental fee, each semester.....\$3.00

LAW, COLLEGE OF

Tuition, first semester.....25.00

Tuition, second semester.....20.00

Tuition, for one semester only.....25.00

Tuition, special students, or one topic, each semester.....12.00

LIBRARY

Library fee, each semester..... 1.00

MATRICULATION

Matriculation fee..... 5.00

MEDICINE, COLLEGE OF—FIRST YEAR

Tuition, first semester.....65.00

Tuition, second semester.....60.00

Breakage fee.....10.00

SECOND YEAR

Tuition, first semester.....60.00

Tuition, second semester.....60.00

Breakage fee.....10.00

THIRD YEAR

Tuition, first semester.....55.00

Tuition, second semester.....55.00

Breakage fee.....10.00

FOURTH YEAR

Tuition, first semester.....55.00

Tuition, second semester.....55.00

Breakage fee.....10.00

(Unused portion of breakage fee is returnable).

¹These are specially arranged classes in preparatory subjects for University students who are required to make up one or more entrance credits.

NON-RESIDENT

Non-resident fee, undergraduate, each semester.....15.00

PHARMACY, SCHOOL OF

Tuition, first semester.....20.00

Tuition, second semester.....15.00

Tuition, for one semester only.....20.00

(Laboratory fees according to course.)

REGISTRATION

Special registration fee..... 3.00

Laboratory

AGRICULTURAL BOTANY

Courses 1, 2, 7, 8, 9, 10, 13, 14, 15, 16, \$3; 5, 6, 11, 12, \$1.

AGRICULTURAL CHEMISTRY

Courses 100D, 100E, 101, 102, 115, 116, \$5; 103, 104, \$6; 117, 118, \$10.

AGRICULTURAL ENGINEERING

Courses 1, 2, 4, 11, \$3; 3, 5, 6, 17, \$1; 18, 20, \$2; 9, 10, \$4; 13, \$8.

ANATOMY

Course A1, \$13; A2, \$10; A15, \$15; A16, \$10.

APPLIED MECHANICS

Courses 17, 20, \$3; 15, 18, \$4; 25a, 25b, \$5.

BACTERIOLOGY AND PATHOLOGY

Courses 2a, 3, 4, \$4; Dental Bacteriology, \$3.

BOTANY

Courses 1, 2, 15, 16, 21, 22, 25, \$2; 3, 4, 5, 6, 19, 20, 23, 24, \$3; 13, 14, 26, 27, 31, 32, 33, 34, \$1; A, \$4; B, C, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, for each credit hour a semester, \$1.

CHEMISTRY

Courses A, B, Da, 1, 2, 3a, 21, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2, 3, \$10; 14, \$8; 20, \$4; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1.

CIVIL ENGINEERING

Courses 5a, 6a, 8, 30, \$3.

DAIRY HUSBANDRY

Courses 1, 4, 8, 10, 12, \$3; 5, 14, \$4.

ELECTRICAL ENGINEERING

Courses 8, 8a, 9, 10, \$5; 9a, 10a, \$2.

ENTOMOLOGY

Courses 1, 2, 3, 4, 7, 8, 9, 10, 11, \$1; 5, 6, \$2; 15, 16, 17, 18, for each credit hour a semester, \$1.

FORESTRY

Courses 3, 4, 5, \$2.

GEOGRAPHY AND CONSERVATION

Courses 1, 2, 5, 6, 7, 8, 21, 22, 23, 24, 28, \$1.

GEOLOGY

Courses 1, 1a, 2, 13, 18, 25, 27, 31, 33, 34, \$1; 15, 16, \$3.

HISTOLOGY AND EMBRYOLOGY

Course A11, \$3.

HOME ECONOMICS

Courses 1, 2, 7, 8, 9, 10, 11, 12, \$2; 3, 4, \$3; 5, 6, \$5.

MECHANICAL ENGINEERING

Courses 1, 5, 16, 17, \$6; 3, 4, 15, \$5; 2, \$4; 2a, 3a, 18, \$2.

PHARMACY

Courses 21, 22, 23, 24, \$7; 28, 41, \$6; 42, \$5; 40, \$3; 25, 31, 33 for each credit hour a semester, \$2.

PHYSICS

Courses 1, 2, 3, 4, 6, 11, 12, 13, 14, 17, 18, \$4.

PHYSIOLOGY AND PHARMACOLOGY

Courses 1, 2, 3, \$5; 4, \$3; 6, \$8; 10, \$2.

PSYCHOLOGY

Course 1, \$1.

ZOOLOGY

Courses 3, 3a, 3b, 4a, 7, 12, 15, \$2; 1, 2, 5, 9, 11, 13, 14, \$3; A, \$4; 6, \$5; 32, 35, 36, \$1; 17, 18, 19, 20, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

ADMISSION TO THE SUMMER SESSION

The requirements for admission to the summer session correspond to those of the semestral sessions. All who register in the summer session are required to matriculate in some one of the seven colleges of the University unless this has been done previously.

Credit—Nine hours of college credit is the maximum allowed. All courses in the Summer Session carry college credit which will apply towards the requirements for a degree. College credit may be changed to entrance points on the basis of one point for four college hours.

Summer Study in Europe

The University will give credit to the limit of nine hours for studies pursued abroad. Persons desiring such credit must register in the Summer Session in advance, submit detailed plans of their work at the time of registration, and be examined by a committee of the faculty appointed by the Chancellor of the University.

REQUIREMENTS FOR GRADUATION FROM ALL COLLEGES AND SCHOOLS

The requirements for graduation from colleges and schools may be found by consulting the portion of the catalog devoted to the college or school concerned.

CORRESPONDENCE STUDY

Correspondence courses for credit are offered through the Department of University Extension. For full information see the portion of the catalog devoted to that department.

Requirements for College Credit. Three hours preparation constitute the minimum requirement in Extension work in any and all subjects for one hour of college credit. No credit is given without the approval of the head of the department in which the Extension work is taken. The final examination is given under such rules and regulations as the head of the proper department may require. Only one-half of the unit hours required for graduation may be taken in correspondence study.

Requirements for Entrance Credit. Ten hours of preparation each week for one semester or a period of sixteen weeks constitute the minimum requirement in the Extension work for a credit point for entrance to the University. No entrance credit is granted without the approval of the head of the proper department.

IN ABSENTIA CREDIT

All *in absentia* students must register the same as other students. For each credit hour granted, *in absentia*, students (except in the department of University Extension) are required to perform the equivalent of 72 hours of actual work (this being one-third more than is required of students in residence) under the direction of a professor in the department chosen. Credit for *in absentia* work is granted only by a committee of three appointed by the senior dean, the chairman of the committee being the professor whose subject is immediately concerned. This committee examines the work of the *in absentia* student and makes a written report to the Registrar, together with a statement of the amount of credit to be granted.

UNIVERSITY STUDENT ORGANIZATIONS

Religious. The Young Men's and Young Women's Christian Associations, non-sectarian and voluntary organizations of Christian men and women, members of the University, organize and conduct Bible study among the students, hold public meetings, help students to find suitable rooming and boarding places, give free aid to students in search of employment and publish an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of either the Young Men's or the Young Women's Christian Association, Station A, Lincoln, Nebraska. The Students Volunteer Movement is composed of those who have declared their purpose to become missionaries, and meets once a week for devotional and critical Bible study.

Literary and Social. The Palladian and the Union are open literary societies meeting weekly on Friday evenings in their rooms in the Temple.

The University Girls' Club is an organization formed to cultivate friendly and helpful relations among women students irrespective of department, course of study, church or society affiliations. All women students and women members of the faculties are eligible to membership. The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election. The English Club is a writers' club, composed of advanced students and of instructors interested in writing. The club meets regularly to hear and discuss contributions by its members. Membership is by election. The Deutsche Gesellige Verein, the German Club, the Komenian Club, and the Tegner Society are literary and social organizations, whose main purpose is the study of history and language of Germany, Bohemia, and Scandinavia, respectively. The Latin Club, composed of advanced students in Roman History and Literature, holds regular meetings.

Scientific. The Graduate Club, the Debating Club, the Agricultural Students' Association, the Botanical Seminar, the Chemical Society, the Chemical Journal Club, the Engineering Society, the English and Latin Seminaries, the Latin and Physics Colloquia, the Microscope, Forestry and Zoological Clubs are more specially collegiate or departmental organizations, concerning which information is given in the various bulletins devoted to the different colleges and schools.

Musical. The University Chorus, open to all students, gives each year several cantatas and oratorios and participates in the May Music Festival. The Cadet Band, a military band, gives several home concerts annually and furnishes music on occasions of general University interest. The Glee Club gives concerts in Lincoln and throughout Nebraska and adjoining states.

Military. The Pershing Rifles is an organization of cadets composed of the best-drilled men in the University Cadet Battalion. Membership is by election. The Workizer Rifles is a similar organization in the School of Agriculture Cadet Battalion.

HONORS AND PRIZES

Fellowships and Scholarships, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate College only. Fees will be required for all undergraduate laboratory work.

These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state, but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the the announcement of the various colleges.

The William Jennings Bryan Prize. For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. For detailed information apply to the professor of American history.

Prizes for Excellence in Bohemian. To the three best students of the first year class, W. F. Severa of Cedar Rapids, Iowa, offered \$50. In 1912-1913 this prize was awarded as follows: First, Emma Mallat; second, Hedvik Provasnik; third, Clara Svatek.

The Chi Omega Social Service Prize. The Chi Omega Fraternity at its National Convention at Niagara Falls, N. Y. in June, 1913 voted to offer an annual prize of \$25.00 in the Department of Sociology of every institution where a chapter of Chi Omega exists.

The Fraternity adopted this as a part of a general policy to aid wherever it is possible in promoting interest in Social Service among College Women. This prize is intended as an incentive to this end.

The Committee of Award announce the following conditions:

1. Any woman in the University of Nebraska who has completed at least a one year course of two hours or who is now electing such a course in the Department of Sociology shall be eligible.

2. Each competitor shall write a thesis of not less than 2,000 words, subject to be along lines of actual investigation in some field of social service in which the student shall have worked.

3. The judgment of the Department of Sociology as to the standing and interest of the students in the work of the department shall be considered in awarding the prize. The award shall be made on a basis of 75 per cent for the thesis and 25 per cent for departmental standing.

4. The thesis must be submitted to the Committee of Award not later than May 15, 1914. Students intending to enter the contest must announce to some member of the Committee the subject of the thesis not later than January 10, 1914. The members of the Committee will be glad to make suggestions as to appropriate fields of investigation and subjects for thesis.

Athletic and Military Trophies. Cups or other trophies are offered for the winners in the annual Class Field Day, Charter Day and Ivy Day contests, Company Drill, Individual Infantry Drill, and Individual Company Drill and Pershing Rifle contests.

Other Prizes are offered by the College of Law and the College of Medicine for excellence in the work of those colleges. See the Bulletin of the College of Law and the Bulletin of the College of Medicine.

Honorary Societies. **Phi Beta Kappa**, founded at William and Mary College in 1776, has for its object the promotion of scholarship among the students and graduates of American colleges; the Alpha of Nebraska chapter, founded in 1896, annually elects to its membership the one-tenth to one-sixth of the graduating class whose scholarship rank is highest.

REQUIREMENTS FOR ELIGIBILITY¹

Elections to Alpha of Nebraska Phi Beta Kappa will be made annually not earlier than March 5th. The announcement of the names of those elected will be made at the last convocation preceding the spring (Easter) recess.

No person shall be eligible for election on the basis of undergraduate scholarship at the University of Nebraska who is not included in one of the following three classes:

Candidates for graduation at the next succeeding June Commencement.

Graduates of the immediately preceding Summer School.

Graduates at the immediately preceding Mid-Year Commencement.

Group Work—Two groups from each of the following divisions (A, B, C) in the amount indicated, shall be completed before graduation. One of the six groups completed must be Classics or Exact Science.

	Hours
A (1) Mother tongue.....	10
(2) Classics (Greek or Latin).....	10
(3) Modern Language (other than English).....	10
B (4) History.....	6
(5) Philosophy.....	6
(6) Political Economy or Political Science.....	6
C (7) Exact Science (Astronomy, Mathematics).....	10
(8) Physical Science (Chemistry or Physics).....	6
(9) Biology (Botany or Zoology).....	6

¹ These requirements will be rigidly enforced.

Minimum Hours in University of Nebraska—No person shall be eligible who has completed and available for rating less than 64 hours taken in the University of Nebraska. At least 24 of these hours must be in group work.

Subjects Available for Rating—Excepting gymnastics and military drill, all subjects taught in the University of Nebraska shall be available for rating.

Sigma Xi is a similar organization for the encouragement of original investigation in Science, pure and applied.

The Order of the Coif for promotion of scholarship in Law.

Delta Sigma Rho is a national society organized in 1906 by universities of the West to promote among college students the art of effective public speaking and debate, and its membership is confined to authorized representatives of universities and colleges in intercollegiate contests in debate or oratory.

Phi Alpha Tau is an inter-collegiate honorary fraternity, organized by members of the University Debating Squad in 1906 to promote the art of public speaking and debate, and confines its membership, which is limited and by election, to students who have exhibited special interest in public speaking and debate and who have shown special aptitude for that work.

ATHLETICS

The Department of Athletics, under the supervision of Ewald Ortwin Stiehm, A. B., Director and Professor of Athletics, has jurisdiction over all branches of competitive athletics.

The aims of the department are the development of organic power, the basis of vitality, the prerequisite to physical and mental efficiency; to secure and maintain a harmonious muscular development and a reasonable degree of bodily skill and grace; to provide an incentive and an opportunity for every student to secure physical recreation as a balance to the sedentary demands of university life; to conserve the social and moral values of games and sports; to establish high ideals and efficient administration of athletics.

The Grant Memorial Hall is used jointly by the Military Department, Physical Education Department, Girls' Gymnasium and Department of Athletics. On the ground floor are offices, locker-rooms, bathrooms and storerooms. On the second floor there are two halls used for purposes of military drill, calisthenics, and games.

An athletic field is provided for the use of men students and all inter-

collegiate and other games and meets are held there. The field is equipped with two large grandstands, a running track, tennis courts, baseball diamond, football field, and other necessary features.

Competitive athletics are not compulsory but optional to all students complying with the scholastic eligibility requirements.

Members of all University athletic teams are required to take a physical examination at the beginning of the college year or at the beginning of the semester in which that training begins.

No student is permitted to participate in competitive games of an intercollegiate grade unless he is physically fit for the same as determined by the examination. Every precaution is taken to prevent overtraining, exhaustion or unnecessary strain.

The University is a member of the Missouri Valley Conference Athletic Association and maintains representative teams in all major intercollegiate sports. No student may be a member of an intercollegiate team unless he is an amateur athlete and not until he has been a year in the University, and has received a passing grade in 12 hours of the work of the semester previous to the time he desires to compete.

The intercollegiate sports are under the government of the athletic board, a committee of six members of the faculty, one alumnus and five students.

All coaches and assistants are members of the University faculty.

LOAN FUNDS

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are limited to students in the Engineering College. The interest received from the loaning of this money goes to increase the fund. The full rules for its administration and application blanks may be obtained from the office of the Secretary. Loans will only be made to students in need of assistance and to those who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits for temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or leaves school.

Mrs. Ida C. Carter, of New York City, has arranged to give a fund of \$500 to be known as the A. E. Carter Loan Fund, in honor of her husband who was a graduate of the College of Engineering. This fund is available for students of that college only.

PUBLICATIONS

General University Publications. In addition to its annual Calendar and other periodic Bulletins, the University publishes monthly (except July and August) the University Journal, devoted to the relations of the University with the secondary schools of the state and with the University Alumni. General student publications include the Daily Nebraskan, The Cornhusker (annual), and the Students' Handbook (annual). One number of the Bulletin of the University is entitled The High School Manual, and is devoted to high school problems.

Departmental or Special Publications are the University Studies (see the Graduate College), Studies from the Zoological Laboratory, Reports of the Botanical Survey of Nebraska, the Flora of Nebraska, and the Nebraska Geological Survey. The Nebraska Engineering Blue Print is a semi-annual publication by the Engineering Students. The Forest Club Annual is published by the Students in Forestry.

MISCELLANEOUS INFORMATION

Students' Mail sent direct to the University should be addressed "Station A, Lincoln, Nebraska." This United States post-office is in effect part of the University, occupying University Hall 104, convenient to all students.

Board, Room, Employment. The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

The University Cafeteria. The University Cafeteria, under the direction of the Young Men's Christian Association in the Temple building, is open to both men and women of the University. A separate dining hall is provided for the women. This enables the students to obtain wholesome food at a minimum cost.

Convocation. University convocations are held regularly in the Chapel at eleven o'clock Tuesday and Thursday. An interesting address on some important topic of the time or a musical program forms the nucleus of these exercises. Special convocations are called as occasions of importance arise.

Women's Parlors. In Soldiers' Memorial Hall a beautiful parlor has been furnished by members and friends of the University for the use of all women members of the University without reference to religious or other affiliations. Also, a study room open to all University women is provided in the basement of University Hall.

Care of the Sick. The University much needs an infirmary for the care of students when ill. Such students are, however, carefully provided for even at present, on application to the Chancellor, at whose office all cases of serious illness should be reported.

Visitors to the University. Visitors are always welcome. High-school classes, clubs, or parties should, a few days in advance, inform the Registrar of their coming.

Meetings of State Societies. Many state societies hold their annual meetings at the University. The University is always pleased to extend its hospitality and the use of its buildings to any of these or to any similar organization.

The Alumni Association, organized in 1874, is composed of the graduates of the University, including graduates receiving higher degrees. The annual meeting is held the day before Commencement Day in June. A secretary has been secured who is now giving full time to the work of the Association.

CLASS ELECTIONS

The following resolution regarding class elections was adopted by the four classes of the University in 1912. This applies only to regular students of undergraduate rank. It does not apply to Adult Special or Dental students.

"Resolved, That the Presidents of the four classes, the Ivy Day Orator, and the Editor-in-Chief, Managing Editor, and Business Manager of the Cornhusker be elected by the Australian Ballot System as follows:

ARTICLE I

"There shall be one general election by this system the third Tuesday of each semester, exclusive of Registration week, at which election the Presidents of the four classes shall be elected. The Ivy Day Orator, Editor-in-Chief, Managing Editor and Business Manager of the Cornhusker shall be elected at the general election of the second semester.

ARTICLE II

"The Registrar shall designate the place of election. The polls shall be in charge of three faculty members appointed by the Registrar. Each candidate may have a representative at the polls during the election.

ARTICLE III

"Each voter shall check the name of the candidate or candidates for whom he wishes to vote on a ballot furnished him by the election officials which ballot shall then be deposited by the election officials in its respective box. There shall be a separate ballot for each class. At the close of election the ballots shall be counted by the election officials.

ARTICLE IV

"No votes shall be solicited by cards or otherwise at the polls or in the building in which the election is being held during election day.

ARTICLE V

"Each candidate must file his name with the Registrar not later than five (5) P. M. on Friday prior to the day of election. The Registrar shall announce the election in the columns of the Daily Nebraskan ten (10) days prior to the day of election.

ARTICLE VI

"(a) Any student having the full number of entrance credits properly distributed as required by the University and less than twenty-four (24) hours University credits, shall be considered a freshman.

"(b) Any student having from twenty-four (24) up to, but excluding fifty-three (53) hours credit in addition to the full number of entrance points as above named, or any freshman in a three year College having thirty (30) entrance credits, shall be considered a sophomore.

"(c) Any student having from fifty-three (53) up to, but excluding eighty-nine (89) hours credit, or any second year man, by credits in a three year College, shall be considered a Junior.

"(d) Any student having from eighty-nine (89) up to, but excluding graduation, or any third year man, by credit, in a three year College, shall be considered a Senior.

"(e) During the second semester of each year, eighteen (18) hours shall be added to each and every one of the foregoing figures.

ARTICLE VII

"The above and foregoing provisions are subject to recall for cause, by the University Senate on one semester's notice."

RULES AND REGULATIONS GOVERNING STUDENTS

The proper University authorities have established several definite rules and regulations for the government of student conduct and activities within the University. Each student is expected to familiarize himself with these rules and is held responsible for compliance with their provisions. (For the rules of the Librarian, the Committee on Students' Organizations, etc., inquire at the office of the Registrar.) The rules and regulations are as follows:

Registration

1. A candidate for admission to any of the colleges or schools of the University must forward his entrance credentials to the Registrar. This should be done at least one month in advance of the opening of the semester. Credentials submitted for evaluation are retained in our permanent file as the basis on which statement of standing is given. Upon graduation they may be claimed by the student. On receipt and evaluation of the credentials the candidate will be informed of his standing and as soon as possible definite instructions regarding the various steps in registering will be mailed in order that the candidate may know in advance just what will be required of him when he presents himself for registration. Upon arrival at the University the candidate presents himself at the Registrar's office Administration Hall 103 or elsewhere as directed for instructions regarding registration. Registration is governed by certain regulations and restrictions in each college and school of the University, and those of the college the candidate expects to enter should be studied carefully before the work of registration is undertaken.

2. Each student should register at the Registrar's office at the beginning of each semester on one of the days set apart for registration. To promote prompt registration a fee of three dollars (\$3) is charged a student, who, unless excused by the Executive Dean, for any reason seeks to register later. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in registration once made, dropping or adding a study, is regarded as a re-registration.

3. All fees must be paid to the Secretary of the University at the time of registration. The incidental, library and matriculation fees will not be refunded in any case except when charged through official error. No

laboratory or tuition fees or any portion thereof will be refunded to a student after the beginning of the fourth week from the date of his registration and refund will be made only upon written application to the Registrar, stating reasons and approved by the head of the department concerned, presented at the time of withdrawal from class or from the University together with the receipt for fees issued by the Secretary. Except in extraordinary cases not more than one-third of the laboratory fees will be refunded after the student has attended the laboratory.

4. No first or second year student (freshman or sophomore) may register for more than five subjects (exclusive of drill or physical training). No first year student may register for more than 17 credit hours. Students above first year who have attained an average grade of 80 per cent during the previous year may register for a maximum of 18 credit hours. No first or second year student may register for more than one one-hour course (exclusive of drill and physical training) in any one semester; and no third or fourth year student may register for more than two one-hour courses in one semester.

5. A student who fails in a required subject must register for that subject again the first time it is offered.

A student who is conditioned ("C") or incomplete ("I") in a subject must remove the condition or incomplete by the end of the first semester in which that subject is again offered or it becomes a failure.

6. A student cannot attend a class for which he is not registered. The official certificate of registration, signed by the Registrar, is the only evidence of registration to be accepted from the student by an instructor. Credit is not granted for a subject pursued without registration.

7. No student is allowed to change from one group of studies to another or from one college to another without written permission by the dean of each college concerned. A student changing college must also pay a new matriculation fee of five dollars (\$5).

8. A student who, by virtue of special circumstances, is allowed to register for less than the minimum twelve (12) hours required of regular students, receives this permission only for such time as the special conditions continue. No person is allowed to abuse the privilege of registering as a special student to secure merely nominal membership in the University, whether for social purposes or for any other reason.

9. Every detail of registration and record from the time the student leaves the high school until he graduates from the University, together with the interpretation of all the rules relating thereto and the publication of the same, are under the supervision of the Registrar, who is responsible directly to the Chancellor.

Military Drill and Physical Training

10. Each undergraduate man in the University proper is required to receive military instruction during four semesters. Each man in the School of Agriculture shall receive military instruction during his attendance. Excuses from this requirement are granted to either class of students only on the grounds of conscientious scruples, physical disability, or other reasons equally valid. Such excuses shall be granted only upon written application to the commandant of cadets, in whom shall be vested the power to decide such cases. Such decisions may be appealed to the Executive Dean only on presentation by the student of a written statement from the commandant, containing the facts in the case and the reasons for refusing to grant the excuse. Military drill service is not required from non-matriculated students attending the short courses in agriculture.

11. Those excused for religious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man must fulfill this requirement in his Freshman and Sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate obtain the full number of hours credit required of other candidates for the degree sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

Candidates for appointment to office in the Cadet regiment must satisfy the scholastic requirements of the Department of Military Science.

All undergraduate women students of the University must fulfill the requirements in physical training in the Freshman and Sophomore years unless reprieved or excused.

12. Regular attendance is required at all recitations, laboratory and field work.

13. Temporary leave of absence may be granted a student by the dean of his college. This leave of absence is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

14. Each unexcused absence in any subject may, in the discretion of the instructor, deduct three points from the student's semester grade in that subject.

Examinations—Class Work

15. Examinations or tests in every class in the University are held at the option of the instructor. Final examinations, if held, shall be during the last class sessions. Individual examinations can not be demanded by

the student as a matter of right. Such examinations are permitted, if at all, only as a matter of comity. They are given by the permission and at the convenience of the instructor after the regular examination of the class or section. The instructor's permission being obtained, the student desiring individual examination must pay the required fees to the Secretary. On presentation of a receipt therefor to the instructor, the latter is authorized to proceed with the examination.

16. No student is allowed to take any book or paper into the examination room unless the instructor expressly so directs.

17. Sessions of class work of each semester shall be held regularly till 6 P. M. of the last Saturday of the semester unless otherwise provided by special rule.

Reports—Standing

18. On the attendance and standing of each student in each course the instructor makes the following regular reports:

To the Executive Dean:

A. At the end of each week he reports the absences for the week and all cases of delinquency.

B. At the middle of the semester he reports all students who are below a passing grade as shown by class-room work and the mid-semester examination or test.

To the Registrar:

C. At the end of the semester he reports the proficiency each student has attained. All grades above passing (60)¹ are reported to the Registrar in figures, either in straight percentages or in multiples of five. Below passing the following are the markings: F—Failure (below 50); C—Conditioned; I—Incomplete. Also, A—Withdrew in good standing; D—Delinquent at time of withdrawal.

Honorable Dismissal

19. Students not minors being in good and honorable standing may secure honorable dismissal from the University at their own request, and minors at the request of parents or guardians.

Discipline

20. Whenever at the middle or end of any semester a student is delinquent in half or more of his hours of registration, his name is automatically dropped from the rolls of the University. Such delinquent student may be reinstated by the Committee on Delinquent Students. A student

¹ See statement concerning "Grades" in the Bulletin of the College of Arts and Sciences and "The University Teachers' Certificate" in the Teachers College and The Bulletin of the College of Law.

may be refused registration, suspended, or expelled for infringing the good order and comity of the University, as by dishonesty in written work, the acts inhibited in sections 21 to 24 below, or any conduct injurious to the work or the good name of the University.

21. A student who is delinquent in two or more subjects but less than one-half of his work is placed on probation.

22. The case of any student detected in dishonestly giving or receiving aid during an examination must be immediately reported to the Executive Dean by the instructor in charge of the examination or by the head of the department with a succinct account of the evidence in the case. In cases of clear guilt the dean affixes penalties in accordance with deserts.

Dishonesty in written work, themes, essays, reports, theses and the like, is treated in the same way as dishonesty in examinations. The turpitude consists in the presentation as one's own of work or results really borrowed in whole or in part from another.

23. Students must not frequent gaming houses or saloons, or brothels, or engage in gambling, or use intoxicating drinks, or do any other acts inconsistent with good morals.

24. A student must not neglect a call of any University official or Committee.

25. Whenever a student is dropped from the University on account of vicious or wanton delinquency his name is published.

Petitions—Appeals

26. The rights of respectful petition and of appeal to the Chancellor are granted.

27. No extraordinary meetings of students shall be held on the University grounds or within any University buildings for any purpose whatever, except after and in pursuance of a written or printed notice or call stating clearly the business of such meeting. Said notice must be signed by at least three students, approved in the Registrar's office, and be posted openly on the University bulletin board. Such meetings shall always be open and subject to immediate adjournment by the Chancellor or Executive Dean in case of disorder.

Boards of Control

28. The University Athletic Board, composed of six faculty members, one alumnus, and five student members elected annually, controls athletics in the University.

29. The University Debating Board, composed of seven faculty members (ex-officio) and of five student members elected annually, supervises all public debates between students of the University and other institutions.

30. The Student Publication Board, composed of five faculty members

and three student members, has general oversight over all publications by University students.

Organizations, Social Functions

31. All non-athletic organizations and social functions are under the supervision of the Senate Committee on Student Organizations, which may enact such special rules, subject to the Chancellor and the Board, as it may deem necessary for the proper control of such organizations and functions. Organizations coming into financial relations with the public shall submit their accounts to this committee for audit.

32. No person registered in any secondary school of the University shall become a member of any fraternity or sorority.

33. A student who, in any semester, is not satisfactorily carrying at least twelve (12) hours is debarred from acting as departmental assistant or representing the University that semester on any athletic or debate team or board, on a glee, mandolin or dramatic club, on the staff of any college publication or in any other University organization; moreover, a student who fails to pass in twelve (12) hours at the end of a semester is debarred from representing the University in any capacity the semester following. In case a student in any of the above named student enterprises fails, any semester, to carry satisfactorily the work or any part thereof for which he is registered, the Committee on Delinquent Students may at its discretion lessen the hours of such student's registration.

34. Women students in the University shall not take part in out-of-town performances such as dramatic and glee club presentations, elocution recitals, etc., during the regular sessions of the University, and at other times only after permission is granted by the Committee on Student Organizations and Social Functions.

35. All University functions, including athletic contests on home grounds and social gatherings of departmental clubs, shall be held on Friday evening and Saturdays.

All meetings of University clubs and organizations holding later than 8 p. m. shall occur on Friday and Saturday evenings, except by special permission of the Committee on Student Organizations.

All University parties, formal or informal, shall close not later than 12 p. m.

All parties where women are present shall be officially chaperoned. Notice of such parties shall be given to the dean of women and the names of the chaperones submitted to her for approval at least two days in advance. At all entertainments not given in private homes or organization houses, members of the University faculty are to be included among the guests invited to chaperone the parties.

Social Customs

36. The residence of men and women in the same lodging house is not approved, and is not permitted unless the circumstances are unusual. In this case, written permission must be granted by the dean of women.

37. A landlady rooming women students is expected to provide for their use, till half after ten on Friday, Saturday, and Sunday evenings, or on two of these evenings, a reception room on the first floor, properly warmed and lighted.

Women students in these houses will receive gentlemen callers only on the evenings named and only in the reception rooms. Gentlemen will take notice and govern themselves accordingly.

Library and Use of Books

38. Any student regularly registered may take out two books at the closing hour of a day, such books to be returned promptly at the next opening hour. Only two books at a time may be taken out under this privilege.

On written permit from the head of a department, any student may draw one book at a time to be kept not more than one week. Such permit is good only for books pertaining to the department issuing the permit.

A student leaving Lincoln for more than one week must, on or before leaving, return all the library books in his possession.

The following classes of books are not circulated: Reference books shelved in reading room; periodicals, whether bound volumes or current numbers.

Books especially reserved for class use may not be taken out except over night.

There is no provision for a student borrowing from departmental libraries.

Infractions of the library rules will be dealt with in accordance with the recommendation of the librarian.

Announcements

39. Any official University announcement or notice is considered as duly published and as binding upon all students when it is placed upon the official bulletin board or when it is announced at convocation.

40. Emergency or specially important meetings of the University body are called by the display of red-letter notices on all bulletin boards. Obedience to such calls is obligatory on all students.

41. No notice of a meeting of any class or any student organization can be placed upon any of the official bulletin boards unless countersigned by the Registrar.

42. No private advertising announcements can be placed upon any of the University bulletin boards.

Graduate College

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College and Professor of English Language and Literature. (*Head of Department of English Language and Literature.*)

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.

JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.

¹ FREDERICK JAMES ALWAY, Ph. D., Head Professor of Agricultural Chemistry.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

GROVE ETTINGER BARBER, A. M., Professor of Roman History and Literature. (*Head of Department of Roman History and Literature.*)

ERWIN HINCKLEY BARBOUR, Ph. D., Professor of Geology. (*Head of Department of Geology.*)

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

CHARLES EDWIN BESSEY, Th. D., LL. D., Head Dean and Professor of Botany. (*Head of Department of Botany.*)

GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.

WILLIAM CHARLES BRENKE, M. S., Ph. D., Professor of Mathematics.

JUDD NOBLE BRIDGMAN, M. S., Associate Professor of Civil Engineering.

¹ Resigned.

- LAWRENCE BRUNER, B. Sc., Professor of Entomology and Entomologist of the Experiment Station. (*Head of Department of Entomology.*)
- PHILO MELVYN BUCK, Jr., A. M., Professor of Rhetoric.
- HOWARD WALTER CALDWELL, A. M., Professor of American History. (*Head of Department of American History.*)
- ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.
- LEON WILSON CHASE, B. Sc., Professor of Agricultural Engineering. (*Head of Department of Agricultural Engineering.*)
- GEORGE RICHARD CHATBURN, A. M., C. E., Professor of Applied Mechanics and Machine Design. (*Head of Department of Applied Mechanics and Machine Design.*)
- GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation.*)
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures. (*Head of Department of Romance Languages and Literatures.*)
- BENTON DALES, Ph. D., Professor of Chemistry. (*Head of Department of Chemistry.*)
- WILLIAM FRANCES DANN, A. M., Professor of History and Criticism of the Fine Arts. (*Head of Department of History and Criticism of the Fine Arts.*)
- ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Professor of Mathematics. (*Head of Department of Mathematics.*)
- CHARLES LEE DEAN, B. Sc. in M. E., Associate Professor of Mechanical Engineering.
- ¹ WILLIAM JACOB DUPPERT, M. S. F., Adjunct Professor of Forestry.
- LUCILE EAVES, M. S. C., Ph. D., Associate Professor of Practical Sociology.
- ROLLINS ADAMS EMERSON, D. Sc., Professor of Horticulture. (*Head of Department of Horticulture.*)
- CARL CHRISTIAN ENGBERG, Ph. D., Executive Dean and Professor of Applied Mathematics.

¹ Resigned.

¹ MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.

FRED MORROW FLING, Ph. D., Professor of European History. (*Head of Department of European History.*)

MILLER MOORE FOGG, A. M., Professor of Rhetoric.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Professor of Educational Theory and Practice. (*Head of Department of Educational Theory and Practice.*)

LAURENCE FOSSLER, A. M., Professor of Germanic Languages and Literatures. (*Head of Department of Germanic Languages and Literatures.*)

MARY LOUISE FOSSLER, A. M., Assistant Professor of Chemistry.

PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of Department of Rhetoric.*)

SHERLOCK BRONSON GASS, Ph. B., Associate Professor of Rhetoric.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology (in Omaha).

PAUL HENRY GRUMMANN, A. M., Director of the School of Fine Arts and Professor of Modern German Literature.

EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.

JAMES DAVID HOFFMAN, M. E., Professor of Mechanical Engineering and Practical Mechanics. (*Head of Department of Mechanical Engineering.*)

VERNON LEO HOLLISTER, E. E., Associate Professor of Electrical Engineering.

GEORGE ELLIOTT HOWARD, Ph. D., Professor of Political Science and Sociology. (*Head of Department of Political Science and Sociology.*)

ALICE CUSHMAN HUNTER, Ph. D., Assistant Professor of Roman History and Literature.

GUERNSEY JONES, Ph. D., Professor of English History. (*Head of Department of English History.*)

¹ Leave of Absence.

- THEODORE ALEXANDER KIESSELBACH, A. M., Professor of Experimental Agronomy. (*Head of Department of Experimental Agronomy.*)
- ¹ JULIA KORSMEYER, A. M., Assistant Professor of the Romance Languages and Literatures.
- JAMES THOMAS LEES, Ph. D., Professor of Greek History and Literature. (*Head of Department of Greek History and Literature.*)
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Director of School of Commerce and Professor of Political Economy and Commerce. (*Head of Department of Political Economy and Commerce.*)
- GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteorology.
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Professor of Education and Dean of the Graduate School of Education. (*Head of Department of Education.*)
- RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Physiology and Pharmacology and Director of the School of Pharmacy. (*Head of Department of Physiology and Pharmacology.*)
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.
- BURTON EVANS MOORE, Ph. D., Professor of Physics.
- WALTER JEAN MORRILL, M. F., Professor of Forestry. (*Head of Department of Forestry.*)
- CLARK EDMUND PERSINGER, A. M., Professor of American History.
- RAYMOND JOHN POOL, Ph. D., Professor of Botany.
- LOUISE POUND, Ph. D., Professor of English Language.
- JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.
- CHARLES WILLIAM PUGSLEY, B. Sc., Director of Extension Service in College of Agriculture.
- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science and Director Legislature Reference Bureau.

¹ Deceased.

CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics.
(*Head of Department of Physics.*)

PHILIP K. SLAYMAKER, M. E., Professor of Machine Design.

OSCAR VAN PELT STOUT, C. E., Dean of the College of Engineering
and Professor of Civil Engineering. (*Head of Department of Civil
Engineering.*)

FREDERICK AMES STUFF, A. M., Litt. D., Professor of English Lan-
guage and Literature.

MYRON HARMON SWENK, A. M., Professor of Economic Entomology.

GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy. (*Head
of Department of Astronomy.*)

LOUIS BRYANT TUCKERMAN, Jr., A. B., Associate Professor of
Theoretical Physics.

FRED WILBERT UPSON, Ph. D., Professor of Agricultural Chemistry.
(*Head of Department of Agricultural Chemistry.*)

GEORGE OLIEH VIRTUE, Ph. D., Professor of Political Economy and
Commerce.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology
and Pathology. (*Head of Department of Bacteriology and Pathology.*)

ELDA REMA WALKER, Ph. D., Associate Professor of Botany.

¹ CHARLES WILLIAM WALLACE, Ph. D., Professor of English Lan-
guage and Literature.

HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.

EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany and
Botanist of the Experiment Station. (*Head of Department of Agri-
cultural Botany.*)

WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and
Embryology (in Omaha).

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College
of Medicine and Professor of Zoology. (*Head of Department of Zool-
ogy.*)

HARRY KIRK WOLFE, Ph. D., Professor of Philosophy. (*Head of
Department of Philosophy.*)

¹ Leave of absence.

Graduate Council

Professors Chatburn, Frye, Grummann, Howard, Lees, Sherman, Skinner,
Wilcox, Wolfe.

Standing Committees

Examinations—Professors Wilcox, Howard.

Enrollment—Professors Lees, Skinner.

Publication—Professors Grummann, Frye.

Standardization—Professors Wolfe, Chatburn.

THE GRADUATE COLLEGE

Organization and History of the Graduate College. Graduate instruction in the University of Nebraska was organized in 1886. In September of that year courses were offered in thirteen subjects, including Sanskrit, Old French, Germanics, and Institutional History. In 1895 a Graduate School was organized, under a dean and a designated faculty. The number of students increased steadily, and in 1898 thirty-nine candidates received degrees. During the second period, lasting till 1909, many graduate subjects were added, including Astronomy, Bacteriology, Commerce, Education, English History, Geography, Physiology, and Sociology. In the legislative session of 1909 the charter of the University was amended, and the establishment of seven colleges, instead of the five colleges named in the charter, were authorized. By this act the Graduate School became the Graduate College of the University of Nebraska.

Purpose of the Graduate College. The Graduate College extends and enlarges the work of the undergraduate departments, in order to provide facilities for specialization and research. It enables students to employ themselves for two or more semesters on uncompleted subjects, or other work for which the discipline of college training has prepared them. It furnishes expert and standard preparation for those who expect to become investigators, consulting engineers, or teachers in academies and colleges. The Graduate College offers these privileges, which would be costly in an institution differently endowed, practically without expense to the student.

Degrees. The degrees of Doctor of Philosophy, Master of Arts, Master of Forestry, Agricultural Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer are conferred on registered students, by the Board of Regents, upon recommendation of the Graduate faculty.

ADMISSION TO THE GRADUATE COLLEGE

Classes of Graduate Students. The Graduate College recognizes three classes of applicants: those who, having taken a bachelor's degree, wish to broaden their education without reference to higher degrees; those who wish to be candidates for advanced degrees, but are deficient in undergraduate preparation; and those who are eligible to candidacy, and wish to enter at once upon their special work. Those who do not wish to be candidates for an advanced degree are at once admitted, on evidence of

graduation, to approved work in the Graduate College. Persons presenting first degrees in Law or Medicine or Theology may be admitted in this class. Those seeking advanced degrees, with insufficient preparation, are admitted to graduate standing, but must at once make up their deficiencies by taking courses in the undergraduate colleges. On completion of these assigned or arranged courses, such students become applicants of the third class, and are eligible to candidacy for the degree desired.

Registration. Graduates of the undergraduate colleges of this University, or of other colleges having equivalent courses and requiring four years of standard preparation, who have been accepted and approved by heads of departments in charge of the subjects proposed, are registered by the Dean of the college for the degree they designate. For the degree of Doctor of Philosophy, the candidate must be registered for a major subject and an approvably related minor, or a major subject and two approvably related minors. Candidates for the degree of Master of Arts may be registered for a major and a minor subject, or for a major and two minors, or may concentrate all work upon a single subject.

Fees

Matriculation, on entrance.....	\$5.00
Incidental, each semester.....	3.00
¹ Library, each semester.....	1.00
Diploma fee, for each advanced degree.....	10.00
In absentia additional diploma fee.....	10.00
Agricultural Botany—Courses 1, 2, 7, 8, 9, 10, \$3, 5, 6, 11, 12, \$1.	
Agricultural Chemistry—Courses 115, 116, \$5, 117, 118, \$10.	
Agricultural Engineering—Courses 3, 17, \$1; 4, \$3; 13, \$8; 20, \$2.	
Anatomy—Courses A1, A15, \$15; A2, A16, \$10; A11, \$5.	
Bacteriology and Pathology—Courses 2a, 3, 4, \$5.	
Botany—Courses 5, 6, 23, 24, \$3; 13, 14, 26, 27, 31, 32, \$1; 15, 16, 21, 22, 25, \$2; 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, for each credit hour a semester, \$1.	
Chemistry—Courses 21, 34, \$5; 15, 16, 27, \$2; 14, \$3; 22, 39, 40, for each credit hour a semester, \$1.	
Entomology—Courses 15, 16, 17, 18, for each credit hour a semester, \$1.	
Geology—Courses 13, 33, \$1; 15, 16, \$3.	

¹ Graduate students taking laboratory work are charged the usual laboratory fees; a student paying any laboratory fee is not required to pay the library fee.

Physiology and Pharmacology—Courses 1, 2, \$5; 4, \$3; 6, \$8.

Zoology—Courses 3, 3a, 3b, 4, 4a, 7, 12, 15, \$2; 1, 2, 5, 9, 11, 13, 14, \$3; A, \$4; 6, \$5; 32, 35, 36, \$1; 17, 18, 19, 20, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

The usual laboratory fees are required of those taking work in any science or engineering department. But any student who is able to devote only a portion of his time to his University work may, upon the recommendation of the Graduate Council to the University Secretary, be permitted to register free of charge after he has paid the usual dues and fees for four semesters, if a candidate for the degree of Master of Arts, and for eight semesters, if a candidate for the degree of Doctor of Philosophy.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidacy for the degree of Doctor of Philosophy can in no case be completed in less than three years of graduate study. Two years of such work, in another institution, when carried with proper facilities and under competent instruction, may be credited by the Graduate Council; but the last year of candidacy must be spent in residence in the Graduate College. Each candidate must, at registration, satisfy the Graduate Council that he has a reading knowledge of French and German, or must arrange with the heads of these departments with reference to his deficiencies.

Preliminary Examinations. Not later than one school year before his final examination, each candidate for the degree of Doctor of Philosophy must submit to a preliminary examination. This examination may be waived, however, in the case of a candidate who has taken his Master's degree in this University.

Thesis. On completion of his studies, the candidate must present an acceptable thesis. The thesis, prepared upon a topic that has been approved by the professor in charge of the major subject, must show evidence of scholarly research. It must be typewritten, paged, and bound according to a prescribed form, which may be seen in the University library. It must be submitted to the professor in charge of the major subject at least two months before the intended graduation of the candidate. When it has been approved by the examining committee, it will be placed in the Chancellor's office, where, during a period of not less than two weeks, it will be available for inspection by members of the faculty. A public defense of the thesis may be required of the candidate. After the thesis

has been finally approved, the candidate must file an original and a duplicate typewritten copy of it with the librarian. The original copy of the thesis so filed may not be loaned, or pass from the custody of the librarian under any circumstances or pretext whatsoever. It is also required of the candidate that he has printed and deposited in the library of the University one hundred copies of his thesis, to be subject to the control of the librarian and the head of the department concerned. All theses and printed copies thereof must be provided with a cover and a title page lettered in a form prescribed by the librarian. The degree, however, may be conferred before the thesis is printed, provided a security bond be furnished and filed with the Secretary of the board of regents. The amount of this bond is to be named by the librarian, and any term of extension will be fixed jointly by the librarian and the Dean of the Graduate College.

Final Examination. After the thesis of the candidate has been accepted by the examining committee, he must pass a public examination in the subject offered for his degree. This examination is held before an examining committee of not less than three members, including the professors in charge of the major and minor subjects, supplemented if necessary by appointment from the graduate faculty.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Candidacy for the degree of Master of Arts can in no case be completed in less than a year of resident graduate study.¹ On completion of this study, the candidate must pass a public examination, and present an acceptable thesis, based upon some topic connected with his major subject.

Examination. After finishing his studies, each candidate must pass a public examination in the subjects offered for the Master's degree. By concession, a student unable to complete his candidacy in a single residence at the University may be examined in his major and minor studies separately, on completion of either. The examination is conducted by a committee composed of the professors in charge of the major and minor subjects, and some member of the Graduate Council. If but a single subject is offered, an additional examiner is appointed from the Graduate Faculty.

Thesis. Each candidate for the degree of Master of Arts must present a thesis embodying, in connection with his major subject, the results of

¹ By concession, approved students may be accounted to have fulfilled the requirement of residence by completion of eighteen hours of work registered for in Summer Sessions of the University.

research, or the scholarly treatment of some topic. It must be typewritten, paged, and bound according to a form prescribed, which may be seen in the library of the University. It must be submitted for examination at least two weeks before the intended graduation of the candidate. After being approved and accepted, the thesis becomes the property of the University and is placed on file in the University library.

FELLOWSHIPS AND SCHOLARSHIPS

Fellowships and Scholarships, established in the different departments of the University, are available to students registered in the Graduate College. Fees are remitted to Fellows and Scholars for courses listed in the Graduate College only. Fees will be required for all undergraduate laboratory work. These positions are awarded to students recommended by the respective heads of departments. They are not gifts or benefactions from the state but are means whereby services are rendered to the University and at the same time the holder is assisted in some special line of work. The instruction required of Fellows and Scholars is confined to the department in which they are pursuing advanced work. For additional information see the announcement of the various colleges.

COURSES OF INSTRUCTION

The courses of instruction for the Graduate College, the College of Arts and Sciences, and the Teachers College are grouped together, on later pages of this catalog, under the heading, "Courses of Instruction."

THE GRADUATE SCHOOL OF EDUCATION

General Information. The Graduate School of Education has been established too recently to have the necessary changes properly noted in the present catalog. The School is designed to meet the needs of all graduate students in preparation for higher service in teaching and to give to the profession of teaching similar opportunities, offered to the professions of law and of medicine. It is related to the Graduate College as the undergraduate Teachers College is now related to the College of Arts and Sciences and other undergraduate colleges. The requirements for admission are the same as those to the Graduate College. A higher teachers' diploma will be granted to all graduate students who have completed the professional requirements along with the academic requirements for higher

degrees. Courses will be arranged in all graduate departments leading to advanced degrees and the higher teachers' diploma.

The purpose of the Graduate School of Education is; to supplement the work of the Teachers College by adding professional courses specially designed to meet the needs of graduate students in Education leading to special teachers' certificates or diplomas; to organize and give direction to graduate study in education; to promote research and stimulate investigation of the various school and social problems; to give opportunity to normal school graduates already specially trained in methods to strengthen the academic preparation of the undergraduate college while leaving until later the higher professional studies; to furnish a laboratory or workshop in which disciplined schoolmen can solve some of the difficult problems of instruction; and finally, through the means indicated, to fit men and women for the highest service of teaching—public and private—school administration, directorship and intellectual leadership.

Registration. Students desiring the graduate teachers' diploma will register in both the Graduate College and the Graduate School of Education. The College grants all degrees and the School of Education the graduate teachers' diplomas. For entrance requirements and graduation see under Graduate College.

Academic Requirements. All students, candidates for the graduate teachers' diploma, will be required to pursue some subject either as major or minor in an academic department offering graduate courses leading to higher degrees.

Professional Requirements. In addition to the above academic requirements the candidates for the graduate teachers' diploma will be required to complete eighteen semestral hours in education and psychology, eight of which must be in the Department of Education and four of which must be in the Department of Philosophy. Unless taken elsewhere the History of Education will be required and at least two hours in adolescence. Educational psychology will be required of all.

The remaining six hours of professional requirements may be elected in graduate work in the department of Educational Theory and Practice or from graduate teachers' courses in the major subject of the student, under the advice of the advisory committee.

Courses of Instruction. The graduate courses of instruction leading to advanced degrees and the graduate teachers' diplomas are found sched-

uled in the appropriate departments under the heading Graduate Work in "Courses of Instruction."

Standing Committees

Course of Study—Professors Howard (chairman), Barber, Fossler, Fling, Frye, Candy, Powers, Skinner, Virtue.

Graduate Teachers' Certificates—Professors Caldwell (chairman), Alexander, Barbour, Chatburn, Dales, and the Registrar.

Advisory—Professors Wolfe, Luckey, and the Professors concerned with the student's major and minor subjects.

Committee on Nominations—The Chancellor, Deans Bessey, Sherman, Luckey.

The Faculty roster will appear in a later bulletin. For further information address Professor G. W. A. Luckey, Dean of the Graduate School of Education, University of Nebraska.

**The
College of Arts and Sciences**

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Professor of Mathematics. (*Head of Department of Mathematics.*)

CHARLES EDWIN BESSEY, Ph. D., LL. D., Head Dean and Professor of Botany. (*Head of Department of Botany.*)

LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Dean of the Graduate College and Professor of English Language and Literature. (*Head of Department of English Language and Literature.*)

CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Professor of Educational Theory and Practice. (*Head of Department of Educational Theory and Practice.*)

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College of Medicine and Professor of Zoology. (*Head of Department of Zoology.*)

GROVE ETTINGER BARBER, A. M., Professor of Roman History and Literature. (*Head of Department of Roman History and Literature.*)

HOWARD WALTER CALDWELL, A. M., Professor of American History. (*Head of Department of American History.*)

LAWRENCE BRUNER, B. Sc., Professor of Entomology and Entomologist of the Experiment Station. (*Head of Department of Entomology.*)

LAURENCE FOSSLER, A. M., Professor of Germanic Languages and Literatures. (*Head of Department of Germanic Languages and Literatures.*)

JAMES THOMAS LEES, Ph. D., Professor of Greek History and Literature. (*Head of Department of Greek History and Literature.*)

¹ Resigned,

- ERWIN HINCKLEY BARBOUR, Ph. D., Professor of Geology. (*Head of Department of Geology.*)
- FRED MORROW FLING, Ph. D., Professor of European History. (*Head of Department of European History.*)
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Dean of the Graduate School of Education and Professor of Education. (*Head of Department of Education.*)
- GEORGE ELLIOTT HOWARD, Ph. D., Professor of Political Science and Sociology. (*Head of Department of Political Science and Sociology.*)
- PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of Department of Rhetoric.*)
- HARRY KIRKE WOLFE, Ph. D., Professor of Philosophy. (*Head of Department of Philosophy.*)
- ALBERT ALISON REED, A. M., Inspector of Accredited Schools and Professor of Secondary Education. (*Head of Department of Secondary Education.*)
- JAMES EDWARD LE ROSSIGNOL, Ph. D., Director of School of Commerce and Professor of Political Economy and Commerce. (*Head of Department of Political Economy and Commerce.*)
- GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation.*)
- GOODWIN DE LOSS SWEZEY, A. M., Professor of Astronomy. (*Head of Department of Astronomy.*)
- RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Professor of Physical Education and Director of the Men's Gymnasium. (*Head of Department of Physical Education.*)
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures. (*Head of Department of Romance Languages and Literatures.*)
- MILLER MOORE FOGG, A. M., Professor of Rhetoric.
- EDGAR LENDERSON HINMAN, Ph. D., Professor of Logic and Metaphysics.
- CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics. (*Head of Department of Physics.*)
- EDWIN MAXEY, D. C. L., Ph. M., Professor of Public Law and Diplomacy.

ALBERT LUTHER CANDY, Ph. D., Professor of Pure Mathematics.

WILLIAM FRANCIS DANN, A. M., Professor of History and Criticism of the Fine Arts. (*Head of Department of History and Criticism of the Fine Arts.*)

BURTON EVANS MOORE, Ph. D., Professor of Physics.

PAUL HENRY GRUMMANN, A. M., Director of the School of Fine Arts and Professor of Modern German Literature.

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology. (*Head of Department of Bacteriology and Pathology.*)

¹ HUTTON WEBSTER, Ph. D., Professor of Social Anthropology.

CARL CHRISTIAN ENBERG, Ph. D., Executive Dean and Professor of Applied Mathematics.

BENTON DALES, Ph. D., Professor of Chemistry. (*Head of Department of Chemistry.*)

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy.

JOHN EDWIN ALMY, Ph. D., Professor of Experimental Physics.

GEORGE OLIEEN VIRTUE, Ph. D., Professor of Political Economy and Commerce.

² EVERETT NEWTON BOWMAN, First Lieutenant, Fourth Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics.*)

JOHN SINGLETON SWITZER, Major, Fourth Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics.*)

MARY CATHERINE GRAHAM, A. B., Dean of Women.

JOSEPH HORACE POWERS, Ph. D., Professor of General and Experimental Zoology.

FREDERICK AMES STUFF, A. M., Litt. D., Professor of English Language and Literature.

HERBERT BROWNELL, B. Sc., Professor of Sciences in Secondary Education. (*Head of Department of Sciences in Secondary Education.*)

DEAN RICHMOND LELAND, A. M., Chaplain of University Cadets.

¹ Leave of absence.

² Resigned.

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Physiology and Pharmacology and Director of the School of Pharmacy. (*Head of Department of Physiology and Pharmacology.*)

LOUISE POUND, Ph. D., Professor of English Language.

¹ CHARLES WILLIAM WALLACE, Ph. D., Professor of English Language and Literature.

PHILO MELVYN BUCK, JR., A. M., Professor of Rhetoric.

EWALD ORTWIN STIEHM, A. B., Professor and Director of Athletics. (*Head of Department of Athletics.*)

GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteorology.

GUERNSEY JONES, Ph. D., Professor of English History. (*Head of Department of English History.*)

CLARK EDMUND PERSINGER, A. M., Professor of American History.

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

WILLIAM CHARLES BRENKE, Ph. D., Professor of Mathematics.

RAYMOND JOHN POOL, Ph. D., Professor of Botany.

MYRON HARMON SWENK, A. M., Professor of Economic Entomology.

MALCOLM GLENN WYER, M. L., B. L. S., Librarian.

LUCILE EAVES, Ph. D., Associate Professor of Practical Sociology.

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

SARA SHEWELL HAYDEN, Associate Professor of Drawing and Painting.

LOUIS BRYANT TUCKERMAN, Jr., A. B., Associate Professor of Theoretical Physics.

ELDA REMA WALKER, Ph. D., Associate Professor of Botany.

NELS AUGUST BENGTSON, A. M., Associate Professor of Geography and Conservation.

ANDREW D. SCHRAG, Ph. D., Associate Professor of Germanic Languages and Literatures.

SHERLOCK BRONSON GASS, Ph. B., Associate Professor of Rhetoric.

GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.

LEVA BELLE WALKER, A. M., Associate Professor of Botany.

¹ Leave of absence.

- FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- AMANDA HENRIETTA HEPPNER, A. M., Assistant Professor of Germanic Languages and Literatures.
- ¹ JULIA KORSMEYER, A. M., Assistant Professor of the Roman Languages and Literatures.
- GEORGE ASBURY STEPHENS, Ph. D., Assistant Professor of Political Economy.
- MILTON D. BAUMGARTNER, A. M., Assistant Professor of Germanic Languages and Literatures.
- ROBERT DOUGLAS SCOTT, A. M., Assistant Professor of English Dramatic Literature.
- ² INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education and Director of the Women's Gymnasium.
- FRANCES JOSEPH PERUSSE, Ph. C., Assistant Professor of Pharmacy.
- JOSEPH EMANUL ALEXANDER ALEXIS, A. M., Assistant Professor of Swedish and Germanic Languages.
- ³ JOHN JACOB PUTNAM, A. M., Adjunct Professor of Bacteriology and Pathology.
- ECK FRANK SCHRAM, A. M., Assistant Professor of Geology.
- HARRIETT ALICE HOWELL, A. M., Assistant Professor of Elocution and Dramatic Art.
- LAURA BELLE PFEIFFER, Ph. D., Assistant Professor of European History.
- CARRIE BELLE RAYMOND, Director of Music.
- MARY LOUISE FOSSLER, A. M., Assistant Professor of Chemistry.
- ALICE CUSHMAN HUNTER, Ph. D., Assistant Professor of Roman History and Literature.
- SARKA HRBKOVA, A. B., Assistant Professor of Slavonic Languages. (*Head of Department of Slavonic Languages.*)
- MARGUERITE CAMERON MCPHEE, A. M., Assistant Professor of Rhetoric.
- ELIZABETH IRENE REESE, A. M., Assistant Professor of Romance Languages and Literatures.

¹ Deceased.

² Leave of absence.

³ Resigned.

- ¹ ANNA MABEL DAY, Assistant Professor of Physical Education.
BESSIE LOUISE PARK, Assistant Professor of Physical Education.
HENRY T. JOHNSON, B. Sc., Assistant Professor of Mathematics.
MAY CHAMBERLAIN, A. M., Assistant Professor of Germanic Languages and Literatures.
CLARENCE JACKSON FRANKFORTER, A. M., Assistant Professor of Chemistry.
WINIFRED FLORENCE HYDE, Ph. D., Assistant Professor of Philosophy.
ELSIE DAY, A. B., Ph. G., Assistant Professor of Pharmacognosy.
OSCAR ROSS MARTIN, A. M., Assistant Professor of Accounting and Business Administration.
LAWRENCE BELL PILSBURY, A. B., M. D., Assistant Professor of Bacteriology and Pathology.
ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science.
CARRIE ADELINE BARBOUR, B. Sc., Instructor in Paleontology and Assistant Curator of the University Museum.
JOHN MARTIN CHOWINS, Expert Mechanician, Department of Physics.
BERTRAM JOHN SPENCER, Demonstrator and Teacher of Construction in Physics.
HENRIETTA McELROY BROCK, Instructor in China Painting.
CLARE BROWN CORNELL, A. M., Instructor of the Band and Assistant in Philosophy.
DAISY JEANETTE NEEDHAM, A. M., Instructor in European History.
MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.
LULU L. RUNGE, A. M., Instructor in Mathematics.
ELIZABETH RUTH GRENNAM, Ph. D., Instructor in Mathematics.
HENRY BLUMBERG, Ph. D., Instructor in Mathematics.
JESSIE BEGHTOL, A. B., Instructor in Physical Education.
HAROLD EDGAR McCOMB, A. M., Instructor in Physics.
EDITH LENORA WEBSTER, A. B., Instructor in Geology.
VIOLA FLORENCE BARNES, A. M., Instructor in American History.
¹ CHARLES ORAN STEWART, A. M., Instructor in Romance Languages.

¹ Resigned.

FLORENCE NIGHTINGALE JONES, Ph. D., Instructor in Romance Languages.

¹ SOLOMON LEFSCHETZ, M. E., Ph. D., Instructor in Mathematics.

MARGARET LOUISE HANNAH, A. B., Instructor in Botany.

GARLAND EDISON LEWIS, A. M., Instructor in Chemistry.

LOUISE EASTERDAY MUNDY, Instructor in Drawing and Painting.

ROBERT WALPOLE ELLIS, M. A., Instructor in Geology.

SEARLE S. DAVIS, A. B., Instructor in Rhetoric.

DAVID CLARK HILTON, A. M., M. D., Instructor in Anatomy.

RALPH THOMAS KNIGHT, M. D., Lecturer on Hygiene.

ARTHUR QUINCY TOOL, A. M., Instructor in Physics.

Standing Committees

Course of Study—Professors Fossler (chairman), Brenke, Caldwell, Hinman, Lees, Le Rossignol, Pool, Skinner, Stuff.

Advanced Standing—The Chancellor, the Dean, The Inspector of Accredited Schools.

Assignment of Recitations and Laboratories—Professors Engberg (chairman), Alexis, Barker, Baumgartner, Blumberg, Borrowman, Davis, Gass, Johnson, McComb, Mantor, Pool, Schrag, Scott, Stephens.

Board of Registration—Professors Lees (chairman), Almy, Bengtson, Conklin, Persinger.

¹ Resigned.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the oldest of the colleges of the University. It offers four years of undergraduate instruction leading to the degree of Bachelor of Arts or of Bachelor of Science. Its chief object is a liberal education, but by a system of "advisers" and "major subjects" it permits of vocational specialization, especially in junior and senior years. In addition, students desiring to combine a liberal arts course with the technical one of law, medicine, or engineering are offered six-year combined academic and professional or technical groups of study leading to the degrees of bachelor of arts or bachelor of science at the end of four or five years and to the degree of bachelor of laws, doctor of medicine, or bachelor of science in engineering at the end of the sixth year.

ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES

Entrance Credits. For admission to the freshman year of the College of Arts and Sciences, a student must present 30 high school entrance credits or "points"¹ from an accredited secondary school of which he must be a graduate. Conditional admission will be permitted on a minimum of 28 credits or "points" from an accredited secondary school of which the student must be a graduate. All other candidates for regular admission will be required to take entrance examinations.

Entrance credit, in addition to that presented when admission is granted, to be accepted must be submitted within one year from date of matriculation. In order to receive college credit for work accomplished in a secondary school application must be made at the time of first registration in the University.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

¹ An entrance credit or "point" is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses a credit "point" is given for three recitations and two double periods of laboratory work (under the supervision of a competent instructor) each week for at least eighteen weeks. In laboratory courses without recitation, a credit point is the equivalent of fifteen single periods each week.

The following table of entrance requirements became effective September 1, 1912, for all undergraduate colleges of the University:

Required Subjects—	Points
English.....	4
History (European) (a).....	2
Language (Foreign) (b).....	6
Mathematics (c).....	4
Science (Laboratory) (d).....	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school.....	12
Total.....	30

- (a) History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- (b) Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- (c) Mathematics: For entrance to College of Agriculture four points are required. A third year in advanced algebra and solid geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering six points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- (d) Science: It is recommended that Physics be offered in meeting the science requirement.

Freshman Program. The following program for freshmen has been arranged:

	First Semester Hours	Second Semester Hours
I. Rhetoric 1, 2.....	2	2
Military Science (Men) or Physical Training (Women) 1	1	1
II. Language ¹		
German.....	5	5
Greek.....	5	5
French.....	5	5
Latin.....	5	5

¹Other language may be taken on advice of Adviser and instructor.

	First Semester Hours	Second Semester Hours
III. Mathematics.....	3 or 5	3 or 5
Botany.....	3	3
Chemistry.....	2, 3 or 4	2, 3 or 4
Physics.....	3	3
Zoology ¹	3 or 5	3 or 5
IVa. American History 1, 2.....	3	3
English History 1, 2.....	3	3
European History 1, 2.....	3	3
English Literature 1, 2.....	3	3
Political Science 1, 2.....	3	3
b. Astronomy 5, 6.....	2	2
Entomology 1, 2.....	2	2
Geography 1, 2.....	2	2
Geology 1, 2.....	2	2
Political Economy 3, 4.....	2	2

Of the above the student is required to

First: Take I.

Second: Take any one or two of II.

Third: Take any one or two of III.

Fourth: Complete the program, if not already completed, from group IV taking not more than one "2 hour" subject from IVb.

General Cultural Groups. In answer to the need of a broadly cultural or humanistic course of study four groups are offered. In each the need of a balance of ancient and modern languages, mathematics and science is recognized. Two of them lay emphasis on the Greek and Latin classics, but carry in addition one modern language. The other two lay emphasis upon the modern languages but retain one ancient language. The Registrar will furnish, upon application, the pamphlet describing these groups.

Advanced Standing. Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University.

¹Students fitting themselves for professional work in Entomology may substitute Entomology 1 and 2, taking Zoology 1 and 2 later.

Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regular organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence and in the senior year at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be

admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

Registration. Registration in the College of Arts and Sciences takes place during the first four days of each semester, from 9 a. m., Wednesday to 5 p. m., Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register (or pay regular, required fees) outside of these days.¹ A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made being regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of the college. No first-year student may register for more than 17 credit hours except with written consent of the dean, and then for a maximum of 18 hours. Second to fourth year students may register for 18 credit hours when their work has averaged at least 80 per cent the previous year. No first or second year student may register for more than one one-hour course (in addition to drill or physical education) in any one semester; and no third or fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

Fees. The incidental, library and matriculation fees will not be refunded in any case except when charged through official error. No laboratory or tuition fees or any portion thereof will be refunded to a student after the beginning of the fourth week from the date of his registration and refund will be made only upon written application to the Registrar, stating reasons and approved by the head of the department concerned, presented at the time of withdrawal from class or from the University together with the receipt for fees issued by the Secretary. Except in extraordinary cases not more than one-third of the laboratory fees will be refunded after the student has attended the laboratory.

¹ Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

The following fees are required of students in the College of Arts and Sciences:

Matriculation (on first registration only).....	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	
Non-resident tuition, each semester.....	15.00
¹ Incidental, each semester.....	3.00
² Library, each semester.....	1.00
Diploma, on graduation.....	5.00
Special:	
Re-registration (including change in registration).....	3.00
Late registration (after registration days).....	3.00
Examination, each subject.....	1.00
Diploma, for degree taken in absentia, additional.....	10.00

Laboratory Fees. In addition to the foregoing general or miscellaneous fees, each student is required to pay the laboratory fee for each subject in which he is registered for laboratory work. These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

LABORATORY

ANATOMY

Courses A1, \$13; A2, \$10; A15, \$15; A16, \$10.

BACTERIOLOGY AND PATHOLOGY

Courses 2a, 3, 4, \$4; Dental Bacteriology, \$3.

¹ In the six-year combined academic and professional or technical groups (law, medicine, and engineering) this fee is charged until such time as the candidate obtains his academic degree.

² No student paying a laboratory fee is required to pay this fee for the same semester.

THE UNIVERSITY OF NEBRASKA

BOTANY

Courses 1, 2, 15, 16, 21, 22, 25, \$2; 3, 4, 5, 6, 19, 20, 23, 24, \$3; 13, 14, 26, 27, 31, 32, 33, 34, \$1; A, \$4; B, C, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, for each credit hour a semester, \$1.

CHEMISTRY

Courses A, B, Da, 1, 2, 3a, 21, 34, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2, 3, \$10; 14, \$8; 20, \$4; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1.

ENTOMOLOGY

Courses 1, 2, 9, 10, 11, \$1; 5, 6, \$2; 15, 16, 17, 18, for each credit hour a semester, \$1.

GEOGRAPHY AND CONSERVATION

Courses 1, 2, 5, 6, 7, 8, 21, 22, 23, 24, 28, \$1.

GEOLOGY

Courses 1, 1a, 2, 13, 18, 25, 27, 31, 33, 34, \$1; 15, 16, \$3.

HISTOLOGY AND EMBRYOLOGY

Course A11, \$3.

PHYSICS

Courses 1, 2, 3, 4, 6, 11, 12, 13, 14, 17, 18, \$4.

PHYSIOLOGY AND PHARMACOLOGY

Courses 1, 2, 3, \$5; 4, \$3; 6, \$8, 10, \$2.

PSYCHOLOGY

Course 1, \$1.

ZOOLOGY

Courses 3, 3a, 3b, 4, 4a, 7, 12, 15, \$2; 1, 2, 5, 9, 11, 13, 14, \$3; A, \$4; 6, \$5; 32, 35, 36, \$1; 17, 18, 19, 20, 25, 26, 27, 28, 43, for each credit hour a semester, \$1.

REQUIREMENTS FOR GRADUATION

University Credits (125 hours). For the degree of Bachelor of Arts or of Bachelor of Science, 125 University credit hours¹ are required. No student is recommended for a degree who is not within eighteen hours of this requirement at the beginning of his last semester.

No student is permitted to be a candidate for more than one degree at a time. Not more than one degree can be conferred upon any student on any commencement day. A graduate holding the degree of Bachelor of Arts may receive the degree of Bachelor of Science by an additional year of work (30 hours), two-thirds of which must be given to a major in Exact Science, Physical Science, or Biological Science. A graduate holding the degree of Bachelor of Science may receive the degree of Bachelor of Arts by an additional year of work (30 hours), two-thirds of which must be given to a major in the Mother Tongue, Classics, Modern Language, History, Philosophy or Economics.

Required Subjects (8 hours). Each candidate for graduation from the College of Arts and Sciences is absolutely required to complete the following subjects:

	Hours
Rhetoric (courses 1 and 2).....	4
² Military Science (men) or Physical Education (women).....	4

¹ A course receives one hour of credit for each one-hour recitation or lecture which presupposes two hours of preparation or for the equivalent of a three-hour laboratory period during each of the eighteen weeks of a semester.

² Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man or woman must fulfill this requirement during the freshman and sophomore years, or begin the work immediately upon matriculation. A reprieve does not abridge or otherwise modify a student's requirement in military science or physical education save to defer the period for discharging it. A student excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degree sought. Thorough drill or physical education elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of either subject at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

Optional Subjects (36 to 44 hours). Each candidate for the bachelor's degree is required to choose two groups from each of the following divisions (A, B, C),¹ in the amount indicated, which shall be completed before the end of his junior year:

	Hours
A (1) Mother Tongue.....	6
(2) Classics (Greek or Latin) ²	10
(3) Modern Language (other than English).....	10
B (4) History.....	6
(5) Philosophy.....	6
(6) Political Economy or Political Science.....	6
C (7) Exact Science (Mathematics).....	6
(8) Physical Science (Chemistry or Physics).....	6
(9) Biology (Botany or Zoology).....	6

Each Sophomore shall take at least one subject (other than Rhetoric and Military Science or Physical Education) continued from his freshman year.

Specialization—Students shall be permitted to choose their elective studies without reference to majors or minors; but each student before graduation shall complete at least two years' work in some one department (minimum 16 hours). Students who wish to specialize after one year of residence may select any department, with any professor in that department as adviser, and may take therein a major of not less than 24 nor more than 32 hours³; such students retaining the right to choose any elective subject aside from the major. Students in the Teachers College shall meet the major and minor requirements for the University Teachers' Certificate.

Grades. Not more than 20 per cent of the student's work below a grade of 70 per cent is credited on requirements for graduation.

In Absentia Credit. All *in absentia* students must register the same as other students. For each credit hour granted, *in absentia* students (except in the department of University Extension) are required to perform the equivalent of 72 hours of actual work (this being one-third more than is required of students in residence) under the direction of a professor in the department chosen. Credit for *in absentia* work is granted only by a com-

¹ A subject from the groups taken in the student's first semester shall be continued in his second semester.

² A student may substitute a second year of classics (Greek or Latin) for any one of B or C.

³ A student may register in the six-year combined Academic-Law course in his senior year and elect not more than 24 hours in the College of Law. (See the announcement of the College of Law.)

mittee of three appointed by the senior dean, the chairman of the committee being the professor whose subject is immediately concerned. This committee examines the work of the *in absentia* student and makes a written report to the Registrar, together with a statement of the amount of credit to be granted.

Bachelor of Science Degree. Any student in the College of Arts and Sciences who majors in a scientific department and, of the 125 hours required for graduation, completes not less than sixty hours in mathematics and science may take the degree of Bachelor of Science instead of the degree of Bachelor of Arts. Such students, however, shall complete six of the nine groups (A, B, or C).

Advisers. Every student before registering must consult an Adviser in regard to his schedule and secure his Adviser's signature to this schedule.

Freshmen and other entering students shall report to the Registrar for assignment to an Adviser. For the freshman and the sophomore years a special group of advisers is provided, in order that students may be assisted to complete the Required Subjects as fully as possible within these years. At the end of the second year, any student who is not taking a major may select as his Adviser any member of professorial rank in the Faculty of the College of Arts and Sciences. Any student may change his Adviser upon consultation with the Dean of the College. On the choice of a major department at the beginning of the second year, any professor in the department thus chosen becomes the student's adviser for the remainder of his college course. No schedule of subjects or hours is valid for registration without the signature of the student's adviser. The dean of the college acts as a head adviser for all students within the college, and the dean of women as a special adviser to all women students.

COURSES OF INSTRUCTION

The courses of instruction for the Graduate College and the College of Arts and Sciences are grouped together, on later pages of this catalog, under the leading "Courses of Instruction." See, also, "Courses of Instruction" in the exhibits of other colleges.

The Teachers College

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

CHARLES FORDYCE, Ph. D., Dean of the Teachers College and Professor of Educational Theory and Practice. (*Head of Department of Educational Theory and Practice.*)

GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Professor of Education and Dean of the Graduate School of Education. (*Head of Department of Education.*)

ALBERT ALISON REED, A. M., Inspector of Accredited Schools, Professor of Secondary Education. (*Head of Department of Secondary Education.*)

HARRY ELWYN BRADFORD, A. B., Professor of Secondary Agricultural Education and Principal of the School of Agriculture. (*Head of Department of Secondary Agricultural Education.*)

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Professor of Mathematics. (*Head of Department of Mathematics.*)

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College of Medicine and Professor of Zoology. (*Head of Department of Zoology.*)

LAURENCE FOSSLER, A. M., Professor of Germanic Languages and Literatures. (*Head of Department of Germanic Languages and Literatures.*)

JAMES THOMAS LEES, Ph. D., Professor of Greek History and Literature. (*Head of Department of Greek History and Literature.*)

¹ Resigned.

- FRED MORROW FLING, Ph. D., Professor of European History.
(*Head of Department of European History.*)
- WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of the Fine Arts. (*Head of Department of the History and Criticism of the Fine Arts.*)
- PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of Department of Rhetoric.*)
- RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Professor of Physical Education and Director of the Men's Gymnasium. (*Head of Department of Physical Education.*)
- GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation.*)
- ALICE MARIE LOOMIS, A. M., Professor of Home Economics. (*Head of Department of Home Economics.*)
- CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures. (*Head of Department of Romance Languages and Literatures.*)
- LUCILE EAVES, Ph. D., Associate Professor of Practical Sociology.
- NELS AUGUST BENGTSON, A. M., Associate Professor of Geography and Conservation.
- ¹ INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education and Director of the Women's Gymnasium.
- MARY CATHERINE GRAHAM, A. B., Dean of Women.
- SARKA HRBKOVÁ, A. B., Assistant Professor of Slavonic Languages.
(*Head of Department of Slavonic Languages.*)
- CARRIE BELLE RAYMOND, Director of Music.
- RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Physiology and Pharmacology. (*Head of Department of Physiology and Pharmacology.*)
- HUTTON WEBSTER, Ph. D., Professor of Sociol Anthropology.
- FREDERICK MAURICE HUNTER, A. B., Lecturer in Elementary Education.
- MATTIE ALLEN, A. M., Instructor in Primary Education.

¹ Leave of absence.

- ¹ CHARLES WILLIAM TAYLOR, A. B., Professor of School Administration and Principal of Teachers College High School. (*Head of Department of School Administration.*)
- ¹ HERBERT BROWNELL, B. Sc., Professor of Sciences in Secondary Education. (*Head of Department of Sciences in Secondary Education.*)
- ¹ FREDERICK AMES STUFF, A. M., Litt. D., Professor of English Language and Literature.
- ¹ CLARK EDMUND PERSINGER, A. M., Professor of American History.
- ¹ FREDERICK WARREN SANFORD, A. B., Assistant Professor of Roman History and Literature.
- ¹ DAISY JEANETTE NEEDHAM, A. M., Instructor in the Teaching of European History.
- ¹ VIOLA FLORENCE BARNS, A. M., Instructor in the Teaching of American History.
- CORA BELLE HILL, A. M., Assistant Principal of the Teachers College High School and Instructor in Mathematical Pedagogy.
- SARAH AGNES RYAN, A. M., Instructor in the Teaching of German.
- LETTA MAY ENGLISH, A. B., Instructor in the Teaching of English.
- ADA VIRGINIA GRAHAM, A. M., Instructor in the Teaching of Latin.
- ² DONEE GRIFFITH, A. B., Instructor in the Teaching of Geography and Botany.
- A. J. DUNLAP, A. B., Supervisor of Assembly Room.
- R. R. SPAFFORD, Instructor in the Teaching of Agriculture.
- A. B. GELWICK, Instructor in Athletics.
- NELDA A. SCHMIDT, A. B., Scholar in Educational Theory and Practice.
- CHARLES MORSE, Assistant in Educational Theory and Practice.

¹ Members of the University Faculty who direct practical courses in the Teachers College High School.

² Resigned.

STANDING COMMITTEES

Course of Study—Professors Fossler (chairman), Lees, Fordyce, Reed, Taylor, Stuff.

Schedule—Professors Conklin, Luckey, Wolcott, Brownell, The Registrar.

Advanced Standing—The Chancellor, the Dean, and the Inspector of the Accredited Schools.

Teachers Certificates—The Chancellor, Professors Fordyce, Davis, Reed, Stuff, Taylor, Lees, The Registrar (secretary).

Credits on University Teachers' Certificates—Deans Fordyce, Davis and The Registrar.

Bureau on Recommendation of Teachers—Dean Fordyce, and Professors Condra, Brownell, Persinger, Reed, Taylor, and Luckey.

Nominations—The Chancellor, the Dean.

THE TEACHERS COLLEGE

On February 14, 1908, the Board of Regents erected the University Department of Education into a Teachers College. This action was confirmed by an act of the state legislature in 1909.

The aim of this college is, while dealing with the history, theory and practice of teaching generally, to improve the quality of secondary teaching in particular, and to provide thoroughly prepared teachers for the secondary schools. The Teachers College aims to provide for the following classes of students:

(1) Well advanced and ambitious teachers wishing preparation for school superintendencies or professorships in colleges or normal schools. They may or may not wish the University Teachers' Certificate, may or may not care to work for advanced degrees.

(2) College students intending to teach, who wish the Bachelor's degree with the University Teachers' Certificate. Such candidates register in this college in the Junior year, specializing in education, and proceed as laid down under "Requirements for Graduation." The requirements for the Certificate are found under the caption "University Teachers' Certificate" on a later page.

(3) Men and women of college grade who design to teach agriculture in high or normal schools. For these a solid one-year course is provided (see below), parts of which may, however, under advice, by such as so desire, be used with the more general studies toward a degree.

(4) Men and women not necessarily possessing so high attainments who call for preparation to teach agriculture in grade or rural schools. The Dean will arrange a year of work carefully adapted to the wants of these.

(5) Persons preparing to teach special branches, such as physical or manual training, home economics, and so on. See the special one-year curricula listed below.

(6) Mature teachers in any department wishing by a longer or shorter period at the University to review studies, familiarize themselves with new methods, or master new branches. Such teachers should consult the Dean. They will find a year or even a semester of properly chosen work of great value.

The Dean of the Teachers College is also ex-officio head of the Bureau on Recommendation of Teachers. This college is also charged with the study of developing the work of instruction in agricultural pedagogy made possible by the so-called "Nelson Amendment" which became law at the

end of the 59th congress. The Teachers College High School and the School of Agriculture serve as model secondary schools to the Teachers College.

ADMISSION TO THE TEACHERS COLLEGE

Candidates for admission to the Teachers College must have completed and have credit for the first two years of collegiate work. This credit must be preceded by the pre-collegiate preparation (30 points¹) afforded by a four years' course in an accredited high school.

Advanced Standing. Applicants from other institutions of approved standing who offer collegiate courses or professional courses in excess of the requirements for admission will be assigned such advanced standing as may be determined by the Committee on Advanced Standing.

Registration. Students register in this college in the Junior year, at the same time retaining identity in another college of the University which grants the degree of Bachelor of Arts or of Science simultaneous with the granting of the Teachers College Diploma and the University Teachers' Certificate by the Teachers College. Thus throughout the Junior and Senior years the student is registered in two colleges.

Registration in the Teachers College takes place on the same days and under the same conditions as in the College of Arts and Sciences.

Advisers. The Dean of the college is the general adviser for students in this college. The board of advisers in this college consists of the Dean and members of the faculty. The general system accords with the plan obtaining in the College of Arts and Sciences.² All candidates for the Diploma and for the University Teachers' Certificate should consult the Dean before registering, that the grouping and correlation of their studies may be properly fixed. Special information concerning majors and minors in which the candidate wishes to specialize may be obtained from the heads of the departments concerned.

Fees in the Teachers College are the same as those in the College of Arts and Sciences, except that graduates taking the University Teachers' Certificate are charged an additional certificate fee of \$2.00.

¹ For the definition of a credit "point," see page 90.

² See page 99.

REQUIREMENTS FOR GRADUATION

University Credits (62 hours). Of the 125 University credit hours¹ required for the degree of Bachelor of Arts or of Bachelor of Science, 62 credit hours shall be in the Teachers College.

The candidate is enrolled at the same time in the Teachers College and in the college in which the major academic work for his degree is sought, being subject to the faculty of the latter college for his academic course and to the former for his professional. He must complete the required subjects in the college in which he takes his degree and, as optional subjects, the professional requirements of the Teachers College.

No student is recommended for a degree who, at the beginning of his last semester, is not within eighteen of the 125 hours required for graduation.

College Professional Requirements. Each candidate for graduation from the Teachers College is absolutely required to complete the following professional subjects in addition to those required in the college which grants the bachelor's degree.

	Hours
Psychology.....	6
Education (professional or technical work).....	15
Major and Minor subjects (specialization).....	40

The professional courses should be taken in the following sequence: Psychology and History of Education in the Junior year, Child Study in the Senior year or in the last half of the Junior year, Educational Theory and Practice in the Senior year.

No major subject may be less than 24 hours, and no minor subject less than 12 hours. The 40 hours may be divided between one major and one minor or three minors. Major and minor subjects should be closely allied.

Departmental Requirements for major and minor recommendations for the University Teachers' Certificate may be found at the beginning of departmental exhibits under "Courses of Instruction."

Residence. At least one year's resident work is required of all candidates for graduation from the Teachers College.

¹ See foot-note (¹), page 97.

TEACHERS COLLEGE DIPLOMA

The completion of the two years' professional curriculum leads to the Teachers College Diploma, a document showing graduation from the Teachers College and naming the major subjects for which the candidate is prepared to teach.

THE UNIVERSITY TEACHERS' CERTIFICATE

The University Teachers' Certificate is granted only to students registered in the Teachers College and only to those who (1) maintain an average of at least eighty (80) per cent in the group of subjects to be taught and a high average in all other subjects in the collegiate course, (2) show special fitness for teaching. As indicated in the extract from the Nebraska certification laws quoted below, it entitles its holder to teach in any high school in Nebraska and is valid in many other states; after three years' successful experience in Nebraska it may be converted into a life certificate by the endorsement of the state superintendent.

The special requirements for this certificate are: (1) The candidate must hold the bachelor's or the master's degree from this University. (2) The completion of non-professional or specialized work amounting to at least 40 hours, divided between a major and a minor or among three minor subjects which the student expects to teach, the ultimate decision as to the student's proficiency resting with the Certificate Committee. The major subject shall be from 24 to 32 hours and the minor from 12 to 16 hours. (3) Professional Knowledge—The completion of 15 hours in Education, and 6 hours in Psychology. Among the 15 hours of Education required, the student may elect a two-hour course in special methods in his major subject; such course must, however, meet the approval of the head of the department of Educational Theory and Practice.

Regents' Rules Regarding University Teachers' Certificates. (1) Each candidate for a teachers' certificate shall submit to the State Superintendent of Public Instruction, for his approval, a detailed report showing the academic and professional preparation of the candidate, including both secondary and collegiate courses, properly authenticated by the Registrar of the University of Nebraska and the Dean of the college in which the student is matriculated. (2) Teachers' certificates issued by the University of Nebraska shall contain a full record showing the amount and the character of the student's work, secondary and collegiate, as shown by the records of the Registrar's office.

For intending teachers of such technical subjects as Agriculture, Domestic Science (Home Economics), Manual Training, Physical Education, Music, etc., special provision is made, under the new certification laws for supervisors in high schools and in the grades.

Certification Committee. All general questions relating to the student's work for the University Teachers' Certificates are under the supervision of the Committee on Teachers' Certificates as named in the standing committees of the Teachers College. Recommendations for the certificate are made to the Faculty of the Teachers College through this committee.

Bureau on Recommendation of Teachers. The University maintains a bureau under the direction of a committee, to assist students and graduates in securing positions as teachers and at the same time to aid superintendents and boards of education in providing schools with competent and suitable teaching talent. For information address the secretary of the Bureau on Recommendation of Teachers.

NEBRASKA CERTIFICATION LAWS

The laws of the state of Nebraska concerning the certification of teachers contain the following provisions:

University Professional State Certificate. "That all graduates of the University of Nebraska holding a degree of bachelor of arts or bachelor of science, and in addition thereto, certificates authorized by the board of regents showing that such graduates have completed the course of instruction prescribed by the regents and faculty of said university, for the special training and instruction of teachers, and such other graduates as hold the same degrees from any college or university duly incorporated under the laws of the state of Nebraska, who, in the judgment of the state superintendent of public instruction, have completed in their respective institutions an equivalent of the courses in the state university, for said degrees prescribed by the regents and faculty of said university, shall be accredited as qualified teachers within the meaning of the school law of this state; and all such graduates shall have equal privileges, upon equal conditions, with graduates from any and all other educational institutions within this state under the school law thereof. Said certificates are hereby declared to be valid as certificates of the first grade to teach in the public schools of the state of Nebraska for a period of three years from their date." (Sec. 1a, subd. IX, S. L. 1905.)

University Life Certificate. "After three years of actual teaching, the certificates of the graduates of the University of Nebraska, or of any other college or university mentioned or described in section 1a of this act, shall be countersigned by the state superintendent of public instruction upon satisfactory evidence that the services of the applicant have been successful; Provided, that said counter-signature may be cancelled and its legal effect annulled by the superintendent of public instruction upon satisfactory evidence of disqualification; Provided, further, that such certificates shall be subject to the provisions for lapsing set forth in Section 4, Subdivision 9, of Chapter 79 of the Compiled Statutes of Nebraska for the year 1899." (Sec. 1b, subd. IX, S. L. 1905.)

City State Certificate. Candidates graduating from the Teachers College will receive on presenting their University Teachers Certificate to the State Department of Public Instruction a First Grade City State Certificate.

Graduates of any college of the University who have completed satisfactorily twelve hours of prescribed education in the Teachers College will be entitled to a Second Grade City State Certificate.

First Grade County Certificate without Examination. On college graduation, with experience or professional training. "The county superintendent may, at his discretion, grant a first-grade certificate, without examination, to a graduate of a college, university, or state normal school, subject to such rules and regulations as may be prescribed by the state superintendent of public instruction." (Sec. 11, subd. IXa, S. L. 1911.) The following requirements have been prescribed by the state superintendent governing the issuance of this certificate: (1) One year's successful experience in teaching; or (2) four hours of school management; four hours in general methodology; and four hours in elective work in history of education, child study, school hygiene, educational psychology, or other pedagogical subjects.

County Certificate, with less than complete examination. "Graduates who have not had one year's experience or taken the aforesaid twelve hours in professional training will be required to take the regular teachers' examination in reading, arithmetic, grammar, geography, United States history, drawing, orthography, penmanship, mental arithmetic, and theory and art of teaching. Graduates who cannot present college or university credit in algebra, botany, geometry, physics, agriculture, civics, english composition, bookkeeping and physiology, equal to that required at the

University of Nebraska for full entrance to the freshman year in the institution, will be required to take in addition the regular teachers' examination in said subjects."

THE TEACHERS COLLEGE HIGH SCHOOL

The Training School. The Teachers College Training School is an accredited four-year high school approved by the North Central Association of Colleges and Secondary Schools. It is located in the University Temple and is a distinctive feature of the University Teachers College. Besides seven large, attractive class rooms and a commodious assembly hall, there are cloak and toilet rooms and ample library and laboratory equipment for a modern school. Here one hundred and fifty youths of high school rank are under the direction of the Head of the Department of Educational Theory and Practice, a skillful and experienced principal, supervisors and assistant instructors.

Senior Observation and Practice in the Training School. The training School first serves as a model secondary school for instruction according to the most advanced methods, and secondly as a place for the study of practical problems in teaching and school administration. Seniors in the Teachers College are required to observe the conduct of the model school and to make a critical study of its educational aims, values and processes, the results of which are summarized and discussed in the class rooms. When the student has become familiar with the pedagogical work of the class observed he is required to select material and organize subject matter in lessons and assist in instruction; but in no case is a student teacher permitted to instruct in a subject that has not been made by him a major subject in University work.

A tuition fee of \$13.50 a semester is charged each pupil registered in the Teachers College High School.

Special Training Courses for Teachers. Several departments in the Teachers College also offer special methods in which they parallel their class-room theoretical work with practice work in the Training School. For the year 1914-1915 such work is offered in the following subjects: Agricultural Botany, Agronomy, American History, Chemistry, English Language and Literature, European History, Geography, Geology, German, Mathematics, Physics, Political Science, Roman History and Literature. See "Courses of Instruction."

Lincoln City Schools. In addition to this model Training School maintained and controlled by the Teachers College, excellent facilities for observation of expert teaching are afforded by the city schools of Lincoln.

DEPARTMENTAL METHODS COURSES

Many of the departments of the Teachers College offer special courses giving instruction as to methods of teaching the subject matter peculiar to those departments. With the approval of the head of the department of Educational Theory and Practice, two hours of such departmental method work in the student's major subject may be substituted for two hours of the required work in education. Courses of this kind offered for the current year may be found as follows: under "Courses of Instruction;" Agricultural Education; American History 11; Chemistry 29; English Language and Literature 29, 30 and 31; European History 45 and 46; Fine Arts 1; Geography 5a, 7; German 19, 21; Greek 21 and 22; Greek History and Literature 17, 18; Home Economics 13, 14; Mathematics 9 and 9a; Music 3; Physical Education 17 and 18; Physics 15, 16; Physiology 1 and 2; Political Economy 4; Political Science 21, 35 and 36; Rhetoric 32; Roman History and Literature 43 and 44; Romance Language 11 and 12; Secondary Education 37; Slavonic 15; Zoology 35 and 36.

REQUIREMENTS FOR THE UNIVERSITY TEACHERS CERTIFICATE

For the University Teachers' Certificate, the following professional courses are required: 1, 2, 4 or 16, and 19 or 20 or 21 or 22; also, such additional work as will give a total of 15 hours in technical education. Among the latter requirements, the student may substitute a two-hour special methods course in the department of his major subject on the approval of the Dean. Intending teachers should at the time of registration confer with the Dean of the Teachers College, that the courses may be properly arranged for the University Teachers' Certificate or for the particular certificate sought.

SPECIALIZATION

Opportunities are offered students desiring to prepare for supervisors in such special subjects as domestic science, domestic art, the manual arts, drawing, music, physical education, agricultural education, commercial

education and normal high school instructorships. These technical courses lead to the supervisor's city, state certificate.

COURSES OF INSTRUCTION

General Courses—The courses of instruction in the Teachers College run parallel in the first two years with those of the College of Arts and Sciences, although the curriculum may include groups from the other colleges according to the election of the candidate. The aim is to give the student a liberal academic training before he begins his technical studies. In order that the candidate for the University Teachers' Certificate may have a proper foundation for the professional subjects of the Junior and Senior years, the academic courses are selective and must follow a definite sequence. In general the courses are broadly educational rather than narrowly so. The exceptions are the subjects purposely pursued with intensive aim.

I. Education

Professor Luckey (*Head of Department*), Miss Munson

The courses in Education are arranged in sequence, and are planned for juniors, seniors and graduates. They should be pursued in the order given unless the change is made on the advice of the instructor. Students should confer with the head of the department before registering.

To meet the need of pedagogical instruction in the normal training high schools and in the normal schools, the department offers a major in education as follows: (1) The major to include six hours in Education and three hours in Philosophy in addition to the present requirement of fifteen hours in Education and six hours in Philosophy for the University teachers' certificate; or (2) the major to include three hours in education and six hours in Philosophy in addition to the present requirement for the University teachers' certificate as given above.

For the above major in Education, courses 1, 2 and 4 in Education and 1 and 2 in Philosophy are required of all. The additional courses to make up the required number of hours may be elected by the student under the advice of the head of the department.

GRADUATE WORK

The chief aim of the department of education in its graduate work, (see under Graduate School of Education) is to furnish opportunity to school

officers, principals, superintendents, teachers of education, college and normal school instructors and public spirited citizens, for advanced study and investigation of important problems in education. A secondary aim is to advance the profession of teaching, by aiding students in discovering themselves, and by encouraging them in productive activity.

Candidates for advanced degrees in education must have completed the professional requirements leading to the University Teachers' Certificate or undergraduate credit in education equivalent to at least twelve semestral hours. Proficiency in one or more academic subjects taught in the high schools is also required.

Master of Arts Requirement—Second Minor: Four hours class-room work for one year. **First Minor:** Six hours class-room work for one year, with assigned readings equivalent to a two-hour course. **Major:** At least six hours class-room work for one year, assigned readings and a thesis representing the equivalent of a six-hour course for one year.

The major for the master's degree may be accepted as a minor for the doctorate. The department is not at present sufficiently equipped to encourage candidates for the doctor's degree in Education; however, facilities for a limited number of strong candidates can be provided. A major for the doctor's degree in Education requires three years of graduate work of not less than twelve semestral hours per year and a thesis equivalent to half as many more hours. The number of hours required for major and minor, as given above, is only approximate, and cannot be relied upon unless the quality of the work is of high order.

The department has a scholarship and a fellowship open to graduate students of special merit. The scholarship is open only to students of full graduate rank while the fellowship is open to Masters or students of one year graduate standing in Education.

COURSES

1. **History of Education**—Ancient and mediaeval, beginning with the earliest periods and extending to the time of Pestalozzi. A study of the physical, moral and intellectual development of mankind, including man's efforts to realize his ideals through systems of education. Especially valuable as a foundation to advanced work in education. Three hours attendance open to juniors, seniors and graduates. Three hours credit. First semester.

Luckey, Munson

2. **History of Modern Education**—From the time of Pestalozzi to the present, including the beginning, growth and present condition of

education in America. Open to juniors, seniors and graduates. Three hours attendance. Three hours credit. Second semester.

Luckey, Munson

3. **Educational Classics**—A historical and critical study of the educational writings of Rousseau, Pestalozzi, Herbert, Froebel, and Spencer; a valuable preparation for course 4. Rousseau's *Emile*, Pestalozzi's *Leonard and Gertrude*, and Froebel's *Education of Man* are the subjects for first semester. Open to juniors and seniors. Three hours attendance. Three hours credit. First semester.

Luckey, Munson

3a. **Educational Classics**—3 continued. Herbart's *Science of Education* and Spencer's *Education*. Two hours attendance. Two hours credit. Second semester.

Munson

4. **Child Study**—The physiology and psychology of childhood, with reference to the pedagogical principles involved; the literature and investigations of special interest to the teachers; specific methods used in child study; the effect of child study on methods of instruction, school management and other subjects of practical pedagogy. This course is concerned with the nature, health, growth, and development of the child for the first twelve years. It is fundamental to the course in adolescence. Open to juniors and seniors. Three hours attendance. Three hours credit. Second semester.

Luckey, Munson

5. **Systems of Education**—Their origin and development, including a comparative study of the leading systems of education in Europe and America. Open to juniors, seniors and graduates. Two hours attendance. Two hours credit. First semester.

Luckey

6. **School Hygiene**—A seminary course devoted to the study of school environments and curricula in reference to their effect upon the health, growth and development of school children, including the location and sanitation of school buildings—light, heat, ventilation, furniture, medical inspection, school diseases, baths, and lunches; sleep, food, clothing, exercise, study, fatigue, recreation, and health of teacher and pupils. Open to juniors, seniors and graduates. Two hours attendance. Two hours credit. Second semester.

Luckey

7. **Graduate Seminary**—A study of current educational literature as found in the best periodicals, and a study of one or more educational problems of special interest to the teachers of Nebraska. Students will be directed in the preparation of theses that will lead to higher degrees in education. Open to graduates who are working for higher degrees in education. One or two hours credit. First semester.

Luckey

8. **Graduate Seminary**—7 continued. Second semester.

9. **Adolescence**—The health, growth, mental and moral development of youth as related to the various problems of secondary education such as attendance, interest, habits of study, discipline, school spirit, ideals, play, work, character. An advanced course in child study especially adapted to secondary teachers, principals and superintendents. Prerequisite: Courses 1, 2 and 4. Intended primarily for graduates. Two hours attendance. Two hours credit. First semester.

Luckey

10. **Adolescence**—9 continued. Second semester.

II. Educational Psychology

In charge of Professor Wolfe

11. **The High School**—Evolution of secondary education, showing when the different studies of the curriculum, methods of teaching, and ideals came in, and their meaning and their adaptation to the life of the times. Discussion of current high school problems in the light of this historical study and the study of adolescence. Special reference to public and private secondary schools in Nebraska. For those who wish to devote themselves especially to high school work or superintendence. Two hours attendance. Two hours credit. First semester.

Wolfe

12. **The High School**—11 continued, with more particular attention to the American high school. One or two hours attendance. One or two hours credit. Second semester. May be taken by qualified students without having taken 11.

Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. Open to teachers and also to students in the last two years of their course who have had a semester of psychology. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1914

Wolfe

17. **Philosophy of Education**—The principles underlying all education and their influence in determining the material curricula in schools of instruction. Lectures, discussions, and private readings. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1914.

Wolfe

18. **Philosophy of Education**—17 continued. Second semester.

III. Educational Theory and Practice

Professor Fordyce (*Head of Department*), Miss Allen, Mr. Morse

GENERAL INFORMATION

The courses in this department are intended to offer the essential complement in practice to the theoretical courses in education; the intending teacher is introduced to the actual problems of the class-room through a study of the educational aims, values, and processes found in the Teachers College Training School. In connection with the courses named below, one hour daily for one semester must be devoted to the observation and criticism of instruction and to actual teaching in the training school that the student may learn to judge good teaching in the light of the principles of education, and that his theories may settle into a system of efficient practice.

19. Elementary Education—Lectures and demonstrations upon the selection and utilization of the materials of the course of study and upon the principles of teaching in the elementary schools. Two to three hours attendance. Two to three hours credit. First semester. Fordyce

20. Principles of Teaching in the Elementary School—Continuation of course 19 together with the development and formulation of the principles of method as gained through lectures, assigned readings and the study and discussion of the teaching process as observed in elementary schools. Hours of practice teaching should be arranged with the instructor before registration. Two to three hours attendance. Two to three hours credit. Second semester. Fordyce

20a. The Kindergarten—A study of the educational aims, subject matter, and methods of instruction of the present-day kindergarten, one lecture a week with four to ten hours assistance in teaching. Credit for teaching in this course and also in 20b will apply on certificate requirement but not on graduation. One hour credit. First semester. Allen

20b. The Kindergarten—20a continued. A study of the principles underlying the work of the primary schools and a comparison with that of the kindergarten methods, including a careful examination of the ways and means of correlating the work of the two. One hour credit. Second semester. Allen

21. Educational Theory and Practice in the Secondary School—Lectures and assigned readings on the principles and technique of high-

school instruction. The practical work consists of a critical study of the aims and methods exemplified in the Teachers College Training School and in the Lincoln city schools and of actual teaching to which one hour daily during the semester must be given. Three hours attendance. Three hours credit. First semester. Fordyce

22. Educational Theory and Practice in the Secondary School—21 repeated. Second semester.

NOTE—A limited number who have had Education 21 or 22 are permitted to teach a class in the model high school during an entire year. Such students rank as assistants in the Teachers College Training School. These assistants are required to meet in weekly conference for consideration of the concrete problems that arise in the class-room work. Application for enrollment in these courses should be made the preceding semester.

23. The Technique of Instruction—A practical application of the principles of teaching as formulated in the preceding courses. Three to five hours attendance. Two to three hours credit. First and second semesters. Fordyce

25. The Laws of Learning—A consideration of the relation between the learning process and the teaching process together with an application of the fundamental laws involved in learning. Two hours attendance. Two hours credit. First semester. Fordyce

26. Supervision and Criticism of Instruction—The principles of supervision and criticism; specific functions of supervising officers; the use of standardized tests in determining the efficiency of the school and the school system. Three hours attendance. Three hours credit. Second semester. Offered in the Summer Session, 1914. Fordyce

GRADUATE COURSES

51. Practicum—Book reviews, reports and discussions introductory to the selection and consideration of problems for the basis of thesis work in advanced degrees. Two hours attendance. Two hours credit. First semester. Fordyce

52. Practicum—51 continued. Second semester.

53. Experimental Education—The application of scientific methods in arriving at statistical results in present day educational practice. The course involves a study of the physical and mental capacities of the student and the factors that condition his progress through the school system. Two to three hours credit. First semester. Fordyce

54. **Educational Measurements**—A consideration of the standards and scales for the measurement of educational processes together with the technique of applying these standards to educational products in determining efficiency in school achievements and in conducting school surveys. Two to three hours attendance. Two to three hours credit. Second semester. Fordyce

55. **Supervision of Instruction**—This course follows Course 26 and aims to present to graduate students the principles of effective supervision and school administration. Two to three hours attendance. Two to three hours credit. First semester. Fordyce

56. **Supervision of Instruction**—Course 55 continued. Second semester.

IV. Sciences in Secondary Education

Professor Brownell (*Head of Department*), Miss Griffith, Mr. Spafford, Mr. Garey, Mr. Lamphere, Mr. Truman

COURSES FOR THOSE WHO PLAN TO TEACH HIGH SCHOOL SCIENCES

27. **Teachers' Special Methods in Physics** (Physics 15)—Discussion in detail of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high schools generally. Such understanding and organization in the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Physics 1, 2, 3, 4, or 11, 12, 13, 14. Two hours attendance. Three hours laboratory. Two hours credit. Second semester and Summer Session. Brownell

28. **Teachers' General Course in Physics** (Physics 15b)—The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative for both laboratory and lecture table. Organization of the subject-matter to be taught in connection with such experiments. Parts of the subject presenting special teaching difficulties in high school work given careful exposition. The laboratory work a series of exercises fundamental in the teaching process. Two hours attendance. Four hours laboratory. Two hours credit. First semester and Summer Session. Brownell

29. Teachers' Special Methods in Chemistry (Chemistry 29)—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of classroom instruction to laboratory work. Choice of text and reference books. Prerequisite: Chemistry 1, 2, 3. Two hours attendance. Three hours laboratory. Two hours credit. First semester and Summer Session.

Brownell

31. Teachers' Special Methods in Physical Geography (Geography 7)—Discussion of the subject-matter and methods of teaching Geography, especially of the Physical Geography of the high school. Relation of the various phases of the subject, and its distribution by grades in courses of study. Accumulation of illustrative materials, and selection of laboratory exercises. Collection and use of reference library books. Reports upon observations of grade teaching. Purpose and management of excursions and field studies. Prerequisite: Geography 1, 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester

Condra, Nelson

32. Teachers' Laboratory Course in Physical Geography (Geography 11a)—Involves working a selected list of exercises suitable for use in high schools. The teachers' problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Services to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters.

Condra, Nelson

33. Practice Course in Secondary School Sciences (Physics 16, Chemistry 30, Geography 11b, Agriculture, Botany, General Science)—A semester of teaching of classes in high school sciences under closest supervision. Involves (a) class management and class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of laboratory work with sections of the science classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. Two hours conference. Four hours laboratory, or three hours teaching. One, two, or three hours credit. First and second semesters.

Brownell, Griffith, Spafford

34. General Science—Selection and organization of subject matter with its manner of presentation. Two hours attendance. Four hours

laboratory. Two hours credit. First and second semesters, and Summer Session.

Brownell

V. Secondary Education

Professor Reed (*Head of Department*)

35. **The Secondary School**—A general course on the problems of the secondary school; its organization and equipment; relation of teacher to pupil, to principal, to board of education, to community, and to the profession; the program of studies; a balanced curriculum; questions of class organization; the library; the laboratory. Lectures, discussions, readings and reports. Open to juniors, seniors and graduates. One or two hours attendance. One or two hours credit. First and second semesters.

Reed

36. **The Accredited School**—Systems of admission to higher institutions. College entrance requirements. Accredited relations: theory; basis; effect on programs of studies, courses of study, and curricula. Inspection: theory, history, and methods. The secondary schools: organization; standard of excellence; tests of progress; teacher; equipment library, and laboratories. Open to seniors and graduates. One hour attendance. One hour credit. Second semester.

Reed

VI. Educational Administration

Professor Taylor (*Head of Department*)

37. **Educational Organization and Administration**—This course is planned especially for superintendents and principals. It deals with the problems of organization and administration of public schools as viewed in the light of the prevailing systems in America. Among the topics considered are national and state control of education; the county, township, city and rural system; school building; playground; the school as a social center; inter-relation of school boards; superintendents, principals, and teachers; supervision of instruction—the teaching staff, improvement of teacher in service; administration of secondary and elementary schools; education for defective and subnormal children; discipline, government, courses of study, grading of promotion. Open to seniors and graduates. Number of hours' credit depends upon work done. First semester.

Taylor

38. **Educational Organization and Administration**—37 continued. Second semester.

VII. Agricultural EducationProfessor Bradford (*Head of Department*)

1. Agricultural Pedagogy—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers of this work. Junior or senior year. Two hours attendance. Two hours credit. First semester. Bradford

EDUCATIONAL COURSES IN THE CURRICULA OF OTHER COLLEGES

22. Teacher's Course in Agronomy—Designed for those who are preparing to teach agronomy in colleges and secondary schools. Ways and means as well as pedagogical principles of Agronomical instruction. Prerequisite: courses 1, 2, 7 and 8. Two lectures per week. Four hours preparation. Two hours credit. Second semester. Barker, Hopt

11. American History—Practical preparation for teaching of American history in Nebraska schools. History in the school curriculum; equipment, qualifications of a teacher, methods, aids; practice work in outlining and map making; observation and practice work in the Teachers College Training School and the Lincoln high school. Required of seniors expecting a teacher's major in American history; may be substituted for Education, general methods course. One hour attendance; one hour observation and practice. Two hours credit. Second semester. Persinger

29. English Language and Literature—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College Training School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1914.

Sherman, Stuff

30. **English Language and Literature**—29 continued. Prerequisite. Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester. Sherman, Stuff

31. **Teachers' Practice Course in English Language and Literature**—Daily practice in teaching study of problems arising from actual conditions in the class room. Special study of the lesson and its development. One teachers' conference each week. Prerequisite: English Language and Literature courses 1, 2, 11, 12, 29, 30. Two hours credit. First semester. Repeated second semester. Stuff

45. **European History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester. Fling

46. **European History**—45 continued. Second semester.

1. **The Fine Arts**—The interpretation of Art. This course is designed to help students to a sound criticism and appreciation of works of art. It aims to cultivate the aesthetic sense by discussion of the principles and qualities of art and by practice in interpreting pictures, sculpture, architecture, and decorative designs. It also deals with topics that have to do with the education of children; how pictures may be made useful in the school room in stimulating a love for the beautiful; how they may be helpful in other subjects; what pictures are suitable for the school room. Two hours attendance. Two hours credit. First semester. Dann

5a. **Elementary Geography**—A course for teachers in the elementary grades. One to two hours. First semester. Bengtson

7. **Methods in Physical Geography**—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative materials. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester. Condra, Nelson

21. **Teachers' Course in Greek**—The underlying principles of linguistic teaching, with special reference to Greek, but the same principles may be applied to the teaching of any inflected language. A thorough review of the elements, rapid reading of the authors read in schools, discussion of word formation and derivatives. One hour attendance. One hour credit. First semester. Lees

22. **Teachers' Course in Greek**—Course 21 continued.

17. **Greek History** (Prose Composition)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Greek History** (Prose Composition)—17 continued. Second semester.

19. **The Teachers' Course in German**—A survey of the principles and methods underlying the teaching of German. Lectures, assigned readings, papers and reports on topics connected with language teaching in secondary schools. Practice teaching. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts suitable for high school use. The course also includes a thorough review of the chief features of German grammar and the elements of phonetics. Reference books: Fraser and Van Der Smissen's *German Grammar*, Prokosch's *German Grammar*, Bagster-Collins' *German in Secondary Schools*; *The Report of the Committee of Twelve*, Vietor's *Kleine Phonetik*, etc. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 and some advanced literature courses. In all cases students should consult with the instructor before registering for this course. Three hours credit. First semester. Fossler

21. **Phonetics**—The work is based mainly upon Sievers *Phonetik*. Analysis of German sounds. Methods of teaching pronunciation. Required of students who major in German. First semester. Grumann

13. **Home Economics**—Lectures with practice work in teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester. Loomis

14. **Home Economics**—13 continued. Second semester.

9. **Mathematics**—History of Mathematics. Two hours attendance. Two hours credit. Second semester. Candy

9a. **Mathematics**—Mathematical Pedagogy. The application of the principles of teaching mathematics in actual class work in the Training School. One hour credit. First and second semesters of the senior year. Hill

3. **Music** (Chorus Conducting)—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. "The Messiah" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Music** (Chorus Conducting)—3 continued. Second semester.

17. **Physical Education**—(Consult instructors before registering). Two hours attendance. Two hours credit. First semester.

Men, Clapp; Women, Gittings

18. **Physical Education**—17 continued. Second semester.

1. **General Physiology**—A general course in animal and human physiology including the subject of sex hygiene. Especial attention is given to those subjects which most concern the teacher in his work such as digestion, circulation, respiration, secretion, absorption, nutrition, animal heat, reproduction, and the essential facts and theories which are concerned with vital phenomena. The subject of sex hygiene is dealt with in its physiological, sociological, pedagogical, and medical aspects. The laboratory work consists of an experimental study upon animals of the vital phenomena and is adapted to meet the teacher's needs. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Lyman, Day, Thompson

2. **General Physiology**—1 continued. Second semester.

Political Economy 4. **Geography of Commerce**—A general survey of the fundamental conditions and human agencies affecting industrial and commercial industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relation between countries. Two hours attendance. Two hours credit. First semester.

Stephens

32. **Rhetoric and English Composition**—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to juniors, seniors, and graduates. Required of candidates for the University Teachers' Certificate in Rhetoric and English Composition. One hour lecture; three hours reading and observation. Two hours credit. Second semester.

Frye, Fogg

43. **Roman History and Literature**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester.

Barber

44. **Roman History and Literature**—43 continued. Second semester.

11. **Romance Languages** (French Writing and Speaking)—Advanced course. Two hours attendance. Two hours credit. First semester.

Conklin

12. **Romance Languages** (French Writing and Speaking)—11 continued. Second semester.

39. **The Teaching of Reading**—A course for grade teachers. A study of important elements in the mechanics of reading; methods in primary reading; reading in the intermediate grades; reading in the grammar grades; practice in reading selections of literature, suited to children of different ages. One hour attendance. One hour credit. First semester. Reed

40. **The Teaching of Reading**—39 continued. Second semester.

15. **Slavonic** (Bohemian)—Methods in teaching Bohemian. A special course designed for those intending to teach Bohemian. Assigned readings, reports, lectures, model teaching. A thorough review of the grammar and a general summary of literature. Preparation of outlines for teaching. A survey of text-books used in teaching Bohemian. Suggestive helps and plans. Prerequisite: Satisfactory work in courses 1, 2, 3, 4, 9, 10, 11. Two hours attendance. Two hours credit. Hrbkova

Political Science 21. **Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester. Eaves

Political Science 35. **Folk-Lore**—A study of those systems of belief and conduct which have survived from prehistoric and primitive culture into modern civilization. The subject is discussed under the following heads: 1. Folk-faith: animism, magic and myth. 2. Folk-literature: folk-tales and fairy-tales, popular epics, folk-songs and ballads, folk-plays, fables, proverbs, riddles, etc. 3. Folk-custom: popular festivals, pageants and ceremonies, children's games, symbols, and superstitions. These topics are treated with special reference to their relation to the beginnings of religion, law and morality. This course should prove of special importance to teachers and to others interested in the study of childhood. Lectures and reports. Two hours attendance. Two hours credit. First semester. Webster

Political Science 36. **Folk-Lore**—35 continued.

35. **Zoology**—Methods in Teaching Zoology. A course for high school teachers, including a discussion of the methods of presenting the subject, of the choice of books and of the collection and handling of laboratory materials. Two hours lecture and conference. Assigned reading, laboratory and field work in addition. Two hours credit. First semester.

Wolcott

36. **Zoology** (Ornithology and Nature Study)—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two-hour course, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all, and not recognized in fulfillment of the group requirement for a degree.

Wolcott

SPECIAL ONE-YEAR AND TWO-YEAR TEACHERS' COURSES IN TECHNICAL SUBJECTS

Special courses, as follows, may be arranged on consultation with Dean: Agriculture, Manual Training, Physical Training, Drawing and Modeling, Oral Reading, Public Speaking and Dramatic Interpretation. These are intended for high or normal school teachers and others preparing to become such, who, for any reason, find it impossible to take the full course for a bachelor's degree, which lays a more ample foundation. Those who enter any of these courses are presupposed to be able at least to meet the requirements for "Adult Special" registration.

Courses of Instruction

IN

**The Graduate College, The College of
Arts and Sciences, and The
Teachers College**

Explanatory Note

Courses included between brackets [] are not given in 1914-1915.

Students must consult advisers before registering.

Students registered in the College of Agriculture, College of Engineering, College of Law, College of Medicine and the Schools of Commerce, Fine Arts and Pharmacy are privileged to select courses from the following departments which may apply as electives in regular courses of study.

Likewise students registered in the Graduate College, the College of Arts and Sciences, and the Teachers College may select courses from the departments exhibited in the colleges named above.

AMERICAN HISTORY

Professor Caldwell (*Head of Department*), Professor Persinger, Professor Maxey, Miss Barns, Miss Lyman, Mr. Sheldon

UNDERGRADUATE WORK

1. Order of Courses—Students who have had no Modern European history in high school are advised to take European history 1 and 2, or English history 1 and 2 before entering on the study of American history. Those students who intend to specialize in the department ought to take courses 1, 2, 3, 4, 5 and 6 in order. But those who have had Colonial and Revolutionary history in the high school may omit courses 1 and 2; and will be permitted to enter on course 3 in their sophomore year. Students who wish only one or two years of American history may secure the work in their junior and senior years; such students are recommended to take courses 3 and 4, or 5 and 6, or, on the consent of the instructor, they may choose from advanced courses 15, 16, 18, 21, 25, or 26. Agricultural Engineering and forestry students are permitted to take course 10 without previous preparation in history.

2. Requirements for Arts or Academic Majors and Minors—The requirements in American history for an academic major (24 or 32 hours) or minor (12 to 16 hours), may be satisfied by selecting, under the advice of the department, the requisite number of hours from the courses of this and allied departments.

3. Teachers' Majors and Minors—All major, and 16-hour minor, candidates are required to teach one semester of American history in the Teachers' College High School. For a 28-hour major: American history 3, 4, 5 and 11, and political science 1 required. The student may choose from 2 to 5 additional hours of American history, from courses 6, 15, 16, 18, 21, 25 or 26; the 8 to 11 remaining hours may be selected from European or English history 1 and 2, political science 2, or political economy 1. For a 24-hour major; the same requirements as above, leaving 9 hours to be chosen from allied subjects. For a 16-hour minor: American history 3, 4, 5 and 11; the remaining four hours may be elected from American history 18 and 21, or political science 1 and 2, or from political economy 1. For a 12-hour minor: American history 3, 4, 5 and 11.

GRADUATE WORK

4. Objects—Graduate work in the department of American history affords opportunity to prepare for any one of the following four lines of work: (1) The teaching of American History in the best high schools of Nebraska and adjoining states, and in seminaries, academies, and colleges. (2) Fellowships or instructorships in the older and large universities. (3) Investigational work in corporate, state, or national service. (4) Historical research and writing.

5. Time—From one to three (or more) years may be given to this preparation, under the direct advice and assistance of the instructors in the department, and culminating in the degrees of Master of Arts and Doctor of Philosophy. There are also exceptional opportunities for study in the collateral subjects of English and European history, political science and sociology, and political economy and commerce.

6. Facilities—The University, State, and State Historical Society libraries afford a wide range of original material for work along many lines of historical investigation. Graduate students have free access to all these libraries, and in addition have for their use a seminary room in which are placed all books needed in their particular lines of research. Books not already on the shelves will be purchased or obtained from other libraries when necessary for thesis or other advanced work. Special seminary courses are offered; and investigation in the history of Nebraska and other states of the plains region will be undertaken and the results published from time to time.

7. General Requirements—Candidates for advanced degrees must present a good knowledge of general history, and at least 12 hours of American history above high school courses. Unless this amount of undergraduate preparation is actually presented, candidates for the Master's or Doctor's degree in this department should count on at least one full semester more of work than would otherwise be required for either degree.

8. Requirements for Master of Arts—Work for the Master's degree may be taken in the department as follows: (1) All the work for the degree, including the thesis, in the department. The minimum requirement is one full year's work, including a satisfactory thesis. (2) A major (60%) and the thesis in this department, and the remainder in either one or two other departments. (3) A double minor (40%) or a single minor (20%) in this department, and a major and the thesis in some other department. In any case, the particular courses to be taken are arranged by the candi-

date and his instructors in such manner as to conform to the plans and preparation of each applicant.

9. **Requirements for Doctor of Philosophy**—The minimum for the degree of Doctor of Philosophy is three full years of graduate work, including the presentation of a satisfactory thesis. The work must be taken in at least two departments and may include three. For a major, 60 per cent. of the time must be given to this department; for a double minor, 40 per cent.; and for a single minor, 20 per cent. The thesis in all cases goes with the major. The particular courses to be pursued are arranged on consultation between the candidate and the heads of the departments in which the work is to be taken. Those taking a major in this department are expected to have a good general knowledge of European history and a fair acquaintance with the principles of political economy, public law, political science, and sociology. The thesis must show a reasonable degree of original research and independent treatment.

COURSES

1. **Colonial Period, 1492-1763**—Open to all. Discovery, exploration, and colonization of the Americas by Europe; rise and development of the English colonies and of the English colonial system; struggle of France and England for supremacy in America. Three hours attendance. Three hours credit. Given both semesters of every year. Persinger

2. **Revolution and Making of the Constitution, 1763-1789**—To follow course 1. British change of colonial policy after 1763; revolution and independence; the Revolutionary War; alliance, confederation, and constitution. Three hours attendance. Three hours credit. Given both semesters of every year. Barns

3. **Early National Period, 1789-1829**—Not open to freshmen. Open to sophomores who have had European history 1 and 2, or English history 1 and 2, or American history 1 and 2, or a year of high school American history in the senior class, and to all University juniors and seniors. Three hours attendance. Three hours credit. First semester and Summer Session, 1915. Caldwell

4. **Jacksonian Democracy, Slavery and the Civil War, 1829-1865**—Open to those who have taken course 3, and to seniors. Three hours attendance. Three hours credit. Second semester and Summer Session, 1914. Caldwell

5. **Reconstruction and Industrial Movements, 1865-1892**—Open to those who have had 3 and 4, to juniors, seniors, and graduate students. Three hours attendance. Three hours credit. First-semester and Summer Session 1915.

Caldwell

6. **Recent History, 1893-1914**—Open to those who have had 5, and to juniors, seniors and graduate students. Three hours attendance. Three hours credit. Second semester and Summer Session 1914.

Persinger

7. **Problems of the American Revolution, 1763-1776**—An advanced course open to juniors, seniors, and graduates and to such special students as the instructor may admit. Two hours attendance. Two hours credit. First semester.

Barns

[10. **Land Laws and Policy of the United States**—Open to agricultural, engineering, forestry and advanced academic students. Development of the successive "wests" of American history; with the problems and policies relating to each; policy and laws of the present day in regard to agricultural, mineral, forest, and grazing lands. Three hours attendance. Three hours credit. Second semester. *Not given in 1914-1915.*

Persinger]

11. **Teachers' Course**—Required of all seniors expecting teachers' certification by the department; should be taken during semester of practice-teaching in American history. Review of the subject-matter of high school American history; methods of high school history teaching. Five hours attendance. Three hours credit. Both semesters of every year.

Persinger

[13. **Nebraska History and Political Institutions**—See Political Science course 9. Two hours attendance. Two hours credit. First semester. *Given in 1915-1916.*

Sheldon]

[15. **Political Parties in American History**—The origin, development, principles and methods of American parties. An advanced course open to juniors, seniors and graduate students. A thesis will be expected of each student, and work in the sources will be emphasized. Three hours attendance. Three hours credit. First semester. *Not given in 1914-1915.*

Caldwell]

[16. **Constitutional History of the United States**—Evolution, formation, adoption, and interpretation of the constitution. Open to law students and to juniors, seniors and graduate students. Three hours attendance. Three hours credit. Second semester. *Not given in 1914-1915.*

Caldwell]

17. **Latin America**—Open to advanced students upon consultation with instructor. Brief study of Latin-American history and relations; more detailed study of present-day Latin-American institutions, conditions, and opportunities. Study for 1914-1915 will center upon the northern states of Venezuela, Colombia, and Ecuador. Two hours attendance. Two hours credit. First semester of alternate years. Persinger

18. **The "Finality Years" and the Kansas-Nebraska Bill**—Open only to those who have had courses 3 and 4 (or their equivalent) and course 21. Advanced and intensive study of interpretations of the Compromise of 1850, attempts to make it a "finality," and the revival of the slavery struggle by the Kansas-Nebraska bill of 1854. Two hours attendance. Two hours credit. Second semester. Persinger

19b. **Conference on History in the Grade Schools**—Open to present and prospective grade history teachers. Subject-matter and methods of grade history teaching. Study for 1914-1915 will center upon the work of the 8b grade. City teachers may, after consultation with instructor, attend without registration or credit. One hour attendance. One hour credit. First semester of every year. Persinger

20b. **Conference on History in the Grade Schools**—Continuation of 19b. Second semester of every year. Persinger

[21. **The Wilmot Proviso Struggle and the Compromise of 1850**—Open only to those who have had courses 3 and 4 or their equivalent. Advanced and intensive study of the years 1843 to 1850, with special attention to the struggle over slavery in the territories. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.*

Persinger]

22. **American Diplomacy**—Organization of Department of State and of diplomatic service. Methods. Problems and controversies growing out of them. Change in our diplomatic policy. Two hours attendance. Two hours credit. Second semester. Maxey

23. **Seminary**—For graduate students and special students who may be admitted to the course by the instructor. Study of library organization, bibliography, and methods of research. Reports on thesis and assigned topics, and lectures by invited specialists. Two hours attendance. Credit will vary with amount and character of work done. Every year and Summer Session 1914. Caldwell

24. **Seminary**—Continuation of course 23. Second semester.

Caldwell

25. Expansion of the American Nation and People—Territorial acquisitions, treaties, problems, effects; westward movements—the frontiers; changes in and development of an American people; characteristics. An advanced course open to juniors, seniors and graduate students. Thesis work and study in the sources will be emphasized. Three hours attendance. Three hours credit. First semester. Caldwell

26. The Negro Problem under Slavery and Freedom, 1600-1914—The history of the negro race in the United States; slavery—its development and problems. Emancipation and the negro under freedom; present conditions and problems. An advanced course open to juniors, seniors, and graduate students. Thesis work will occupy about one-third of the time of the student. Three hours attendance. Three hours credit. Second semester. Caldwell

33. Nebraska Legislative Practice and Problems—See Political Science course 33. Two hours attendance. Two hours credit. First semester. Sheldon

34. Nebraska Legislative Practice and Problems—Continuation of 33. See Political Science course 34. Two hours attendance. Two hours credit. Second semester. Sheldon

33a. Seminary on Nebraska History, Politics and Economics—A research seminar in the history, political science, sociology and economics of Nebraska. Open to juniors, seniors and graduate students. Through the Nebraska Legislative Reference Bureau scholarships of one hundred dollars and up will be awarded to members of this course whose merits justify it, or whose research papers prove to be usable by the Bureau. Two hours attendance. Two hours credit. Given every year. First semester. Caldwell, Sheldon

34a. Seminary on Nebraska History, Politics and Economics—33a continued. Second semester.

37. Graduate Conference—Meeting of professors, fellows, scholars and graduate majors for discussion of professional or technical subjects, book reviews, methods, etc. No credit. First semester.

38. Graduate Conference—37 continued. Second semester.

ARCHITECTURE

(See School of Fine Arts and College of Engineering)

ASTRONOMY

Professor Swezey (*Head of Department*), Professor Loveland, Professor Brenke

GENERAL INFORMATION

The Astronomical Observatory with its telescope and other instruments furnishes to elementary students an opportunity to study at first hand the more interesting heavenly bodies. They are given some practice in such exercises as finding accurate time by the stars, determining the latitude of the Observatory, and recognizing with the spectroscope the various elements present in the sun and stars. For advanced work the telescope is equipped with photographic, photometric and spectroscopic appliances; the meridian circle, zenith telescope, transit instrument, and sidereal clock and chronometers furnish facilities for the more important problems in the astronomy of precision.

The location on the campus of the United States Weather Bureau with its self-registering instruments and its daily compiling and printing of a weather map add much interest to the study of meteorology. A complete series of the daily weather maps for many years furnish original data for all sorts of climatological studies.

For the University Teachers' Certificate at least 12 hours credit in courses 5 to 14 are required for a minor and, in addition, courses 15, 16, 21 and 22 or else courses 17, 18, 21 and 22, for a major.

GRADUATE WORK

Master of Arts—Any of the courses offered to graduates and comprising six hours credit may constitute a minor for a student who takes two minors for his degree. Any two such courses may be taken as a single minor. Two such courses and a thesis constitute a major.

Doctor of Philosophy—The department does not undertake major work for this degree, but the courses offered for the degree of Master of Arts may be chosen as minors by candidates for the doctorate taking their majors in other departments.

PRIMARILY FOR UNDERGRADUATES**Meteorology**

1. **General Meteorology**—A general survey of the earth's atmosphere, including composition and extent, temperature, moisture, dew, frost, clouds, precipitation, winds and storms. Students are taught the construction

and use of weather maps and climatic charts, and the use and care of meteorological instruments. Two hours attendance. Two hours credit. First and second semesters.

Loveland

2. **Weather Forecasting**—A study of the laws of storms and the principles of forecasting. Prerequisite: Course 1. One hour attendance. One hour credit. First semester.

Loveland

3. **Practical Meteorology**—A study of the application of meteorology to the various vocations, such as farming, forestry, and engineering; to the workers in the trades and professions; to the householder and ordinary citizens; showing the value and use of a knowledge of weather and climate. Prerequisite: Course 1. One hour attendance. One hour credit. Second semester.

Loveland

Elementary Astronomy

5. **General Astronomy**—A non-technical course for the general student. The lectures summarize our present knowledge of the sun, stars, planets, comets and meteors, and the theories of their origin and development. The laboratory work consists mainly in the daytime study and measurement with the microscope, of photographs, transparencies and spectrograms which are mostly reproductions of negatives taken with the telescopes at Lick, Yerkes, Harvard, Arequipa and Mt. Wilson, of which the department has an extensive collection. This makes possible the direct study of planetary and stellar subjects better even than they could be seen with ordinary telescopes. Also the study of the observatory instruments themselves, and the use of the spectroscope in detecting the elements present in the sun. Evening work at the observatory is optional, and includes some use of the telescope: also the method of finding accurate time, and the latitude of the observatory, with the meridian circle. Each student must also learn the principal constellations, and chart the observed motions of the moon and planets in the sky. Two hours lecture. Two hours laboratory. Two hours credit. Or one additional hour credit for additional laboratory work. First and second semesters.

Swezey

6. **General Astronomy**—Course 5 continued. Second semester.

7. **Descriptive Astronomy**—A one-hour course on the sun, moon and planets. Similar to course 7 but omitting the practical studies and observations. One hour lecture, with collateral readings. One hour credit. First semester.

Swezey

8. **Descriptive Astronomy**—The stars and star systems. Similar to course 7 but may precede it. One hour credit. Second semester.

Swezey

COURSES FOR UNDERGRADUATES AND GRADUATES

General Astronomy

Courses 5 and 6, or their equivalent, are prerequisite to courses 9 to 14.

9. **The Solar System**—Methods similar to those of course 5. Two or three hours credit. First semester. Swezey

10. **The Sidereal Universe**—Similar to course 9 but may precede it. Two to three hours credit. Second semester. Swezey

11. **Time Keeping**—Astronomical methods of finding accurate time with the transit instrument, and of regulating the various clocks and chronometers. Designed incidentally to fit the student to regulate the time service of the observatory. Two or three hours credit. First semester. Swezey

12. **Special Problems with the Transit Instrument and Meridian Circle**—Two or three hours credit. Second semester.

13. **The Astronomy of the Earth**—Closely related to physical geography. The earth as a planet. Its hydrosphere and atmosphere. Latitude, longitude and time. Map projections of the earth. The tides. Two or three hours credit. First semester. Swezey

14. **The Sun and the Earth**—Similar to course 13, but dealing with the sun's relation to the earth. The sun's control of climate in the different zones. Day and night in the different zones and seasons. Solar and terrestrial magnetism. Revolution of suns and planets. Two or three hours credit. Second semester. Swezey

Practical Astronomy

Involves the use of instruments of precision. Courses 5 and 6 are not prerequisite, but would be a useful introduction, especially course 5.

15. **Spherical and Practical Astronomy**—Theory and use of telescope, transit instrument, meridian circle, and zenith telescope. Prerequisite: Plain trigonometry and some facility in the use of logarithms. Three hours attendance. Three hours credit. First and second semesters. Swezey

16 **Spherical and Practical Astronomy**—15 continued. Second semester.

17. **Field Astronomy for Engineers**—Methods of finding latitude, longitude, time and the meridian by the use of field instruments. Three hours attendance. Three hours credit. First and second semesters.

Brenke

18. **Geodetic Astronomy**—Methods of finding precise azimuths and latitudes, as employed by the U. S. Geodetic Survey. Three hours attendance. Three hours credit. Second semester.

Brenke

Mathematical Astronomy

(Involving calculations, but not observations)

21. **Celestial Mechanics**—Requires the calculus. Three hours attendance. Three hours credit. First semester.

Brenke

22. **Celestial Mechanics**—21 continued. Second semester.

Climatology

23. **Climatology**—Climates of different parts of the world. Causes of these differences. Prerequisite: Course 2. One hour attendance. One hour credit. One or two additional hours credit may be secured by further work in the study of the climates of selected localities. First semester.

Loveland

24. **Climatology**—23 continued. Second semester.

BACTERIOLOGY AND PATHOLOGY

Professor Waite (*Head of Department*), Assistant Professor Pilsbury

GRADUATE WORK

As requirements for registration in this department for advanced degrees, the applicant must have completed work equivalent to that of a general scientific course in this University. The ability to read German and French is necessary. Before registration for an advanced degree the candidate must consult the head of the department.

Master of Arts—Second minor: Course 2a and 3, or 2a and 4. First Minor: Courses 2a and 3, or 2a and 4 and its equivalent along some special line of research. Major: Advanced work following the courses outlined above with a thesis.

Doctor of Philosophy—Minors: The minimum requirement will be the equivalent of six hours of class work approved by the head of the department. Major: The candidate must have a thorough knowledge of general

bacteriology equivalent to that required for the degree of Master of Arts. In addition to this he must have pursued and completed some original problem and must embody the results of his work in a thesis. The minimum time requirement must be at least that required by the University for the degree.

2a. Elementary Bacteriology—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters. Waite, Pilsbury

Courses 3 and 4 must be preceded by either course 1 or 2a.

3. Dairy Bacteriology—Sources of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming and butyric acid-producing bacteria. Abnormal fermentations giving rise to slimy, bitter, red, blue, yellow and green milk. Relation of milk to spread of tuberculosis, typhoid fever, and other diseases. Sterilization and pasteurization. Bacteria in butter making. Micro-organisms concerned in the production of cheese. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Waite

4. Agricultural Bacteriology—The nitrogen problem. Bacteria in ammoniacal fermentation, nitrification and denitrification. Bacteria as a means of reclaiming nitrogen lost from the soil. The employment of pure cultures in growing leguminous plants. Azotobacteria. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Waite

BIBLIOGRAPHY

Librarian Wyer

Bibliography—An introduction to the use of books and libraries. A survey of the principles of classification and cataloging and a systematic study of bibliographies, encyclopedias, dictionaries and general reference books. Intended to equip the student in the use of books as tools but not to train for librarianship. One hour attendance. First semester.

Wyer

BOHEMIAN

(See Department of Slavonic)

BOTANY

Professor Bessey (*Head of Department*), Professor Pool, Associate Professor E. R. Walker, Associate Professor L. B. Walker, Instructor Hannah, Miss Dworak, Mr. Weaver, Miss Kramer, Mr. Sears, Mr. Fitzpatrick, Mr. Yunker, Miss Graham, Mr. Weinard

GENERAL INFORMATION

Students entering upon undergraduate botanical work must take courses 1 and 2 or present an equivalent, and are recommended to take 3 and 4, especially in case of preparation for teaching the subject. After this nearly all of the courses are open to election.

The following combinations are recommended for undergraduate majors and minors:

30 hour major. Courses 1-2, 3-4, 5-6, 13-14, 19-20.

24 hour major. Courses 1-2, 3-4, 13-14, 19-20.

20 hour major or minor. Courses 1-2, 3-4, 19-20.

18 hour major or minor. Courses 1-2, 3-4, 13-14.

16 hour major or minor. Courses 1-2, 13-14, 19-20.

14 hour minor. Courses 1-2, 3-4, or 1-2, 33-34 and 19 or 20.

12 hour minor. Courses 1-2, 19-20.

10 hour minor. Courses 1-2, 13-14.

Five laboratories—general, advanced, physiological, systematic, and mycological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware, and other supplies and apparatus.

See, also, Agricultural Botany.

The Botanical Seminar holds open meetings every two weeks for the reading of papers and discussion of botanical questions. To these meetings all students in the department are welcome. Membership in the Seminar is restricted to advanced students of Botany who after invitation succeed in passing the severe entrance examinations set for them.

GRADUATE WORK

Before formal registration for a degree for graduate work in this department the student must have satisfactorily completed General Botany (Courses 1, 2, 3, and 4) and Plant Physiology (Courses 19 and 20) or their

equivalent (20 hours), and one year of Zoology. He must also be able to read Latin, French, and German.

The research laboratory supplied with microscopes, microtomes, culture apparatus, etc., is for the exclusive use of graduate students. The University Herbarium, of considerably more than 230,000 specimens (now temporarily deposited in the University Museum) and the botanical library are open every work day of the week for study and consultation. For certain lines of graduate work the department has photographic cameras and a dark-room. The department (in connection with Agricultural Botany) is prepared especially to offer graduate instruction in plant pathology.

Master of Arts—For majors candidates may select work in cytology, histology, systematic botany, mycology, physiology, ecology, pathology, economic botany, preferably in courses 39 to 50. For minors any courses excepting 1, 2, 3, 4, A, 19, 20.

Doctor of Philosophy—Majors: Courses 39 to 50. Minors: Any courses which the student is prepared to enter (excepting 1, 2, 3, 4, A, 19, 20).

COURSES FOR UNDERGRADUATES

A. General Botany

Recommended to all students intending to make a thorough study of the science.

1. **General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems). General survey of the plant kingdom, including blue-green and green algae and also the bacteria and some fungi. Three hours lecture. Six hours laboratory. Three hours credit. First semester.
Bessey, L. B. Walker

2. **General Botany**—The general survey continued, including brown and red algae, the fungi (including lichens), to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.
Bessey, L. B. Walker

Botany A (Botany 1 and 2)—The Department of Botany offers this intensive course which includes the study of protoplasm, cells, tissues, tissue systems (cytology and histology), and their activities (physiology), followed by the structure of selected representatives of the various groups of plants in the vegetable kingdom (general morphology), together with an introduction to their physiology, distribution, and classification. It meets the needs of those who expect to teach Botany in the high schools, and it takes up the topics in the sequence, and the manner recommended to

teachers in such schools. It is thus a "teachers' course." It is also a University course, being identical with Botany 1 and 2 of the first and second semesters, and will fully satisfy the University's requirement for six hours of credit in General Botany.

Those who register for this work must bear in mind that it will require practically all of their available time. The lectures are given every week day (six days), and followed immediately by not less than four hours of daily work in the laboratory (24 hours each week). The credit for the completed work is six hours. Pool

3. **General Botany**—A more detailed study of the structure and classification of Myxophyceae to Carpomycetaceae, with particular reference to their identification; cell-division, and introduction to cytological technique. Three hours lecture. Eight hours laboratory. Four hours credit. First semester. E. R. Walker

4. **General Botany**—A similar study of Bryophyta to Anthophyta; their origin and relationships; spore formation and the development of the embryo and formation of the primary tissues. Three hours lecture. Eight hours laboratory. Four hours credit. Second semester. E. R. Walker

COURSES FOR UNDERGRADUATES AND GRADUATES

B. Special Botany

I. Histological Botany

5. **Cytology**—Plant cell and karyokinesis in lower and higher plants with cytological technique. Must be preceded by 1, 2, 3, 4 or their equivalent. One hour lecture. Six hours laboratory. Two hours credit. First semester. E. R. Walker

6. **Histology**—Tissues and tissue aggregates in higher plants, with the technique of staining and mounting. With special reference to woody plants. Must be preceded by 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. Second semester. E. R. Walker

II. Systematic Botany

13. **Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the Grasses. Two hours lecture, Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester. Bessey

14. **Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in Course 13. Second semester. Bessey

B. **Systematic Botany in the Summer Session**—Field work and laboratory work under the direction of the professor, with occasional lectures or conferences. Two to eight hours credit. Summer Session. Pool

15. **Mycology**—The general morphology, physiology, life history, and classification of Phycmycetes and Ascomycetes. Special attention is given to the forms which cause plant diseases. Three hours lecture. Six hours laboratory and field work. Three hours credit. First semester. L. B. Walker

16. **Mycology**—15 continued. Similar studies on Basidiomycetes and Fungi Imperfecti. The modern phytopathological technique including the preparation of various culture media and methods of obtaining and maintaining pure cultures. Three hours lecture. Six hours laboratory and field work. Three hours credit. Second semester. L. B. Walker

23. **Advanced Mycology**—Study of a selected group of fungi, including morphology, development and classification. Two lectures or conferences. Four to thirteen hours laboratory. Two to five hours credit. L. B. Walker

24. **Advanced Mycology**—23 continued. Second semester.

25. **Forest Mycology**—An adaptation of courses 15 and 16 for students in horticulture and forestry. The general morphology and physiology of fungi, followed by a detailed study of the morphology, physiology, development, and classification of the fungi which attack the leaves, stems and roots of woody plants, especially of forest trees. Field trips for the recognition and the collection of material. Two hours attendance. Six hours laboratory and field work. Two hours credit. First semester. L. B. Walker

31. **Botanical Literature**—Library work with frequent conferences. Prerequisites: Courses 1, 2, 3, 4, 19, 20 or equivalents. Two to four hours credit. First semester. Bessey

32. **Botanical Literature**—31 continued. Second semester.

III. Physiological Botany

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis; absorption; the relation of the soil and of solutes to the plant; the movement of substances in

the plant body; transpiration; guttation; bleeding; maintenance of bodily form; turgor; secretion; waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Pool

20. **Plant Physiology**—Photosynthesis; the manufacture and assimilation of foods; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement; irritability; correlation; reproduction of plants. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Pool

21. **Plant Ecology**—A field and laboratory study of the individual plant and its component parts as related to environment—autecology. The course includes a consideration of the anatomy of leaves, stems and roots, and the question of the reproduction and dispersal of plants as related to external conditions. A study will also be made in the field and laboratory of the common ecological factors by means of cultures and instruments. Prerequisites: Courses 19 and 20. Two hours attendance. Four to six hours laboratory or field work. Two hours credit. First semester. Pool

22. **Plant Ecology**—A field and laboratory study of the relation of vegetation groups to environment—synecology. The course includes an examination of methods for the study of the origin, development, structure and succession of vegetation types or plant associations. Detailed investigations will be made of the vegetation of the prairies, salt-marshes and woodlands about Lincoln in order to familiarize the student with field methods. A sketch of the general phytogeographic features of North America will also be included in this course. Prerequisites: Courses 19, 20 and 21. Two hours attendance. Four to six hours laboratory or field work. Two hours credit. Second semester. Pool

26. **The Phytogeography of North America**—Lectures, laboratory work and assigned readings upon the Phytogeographic Regions of North America. The composition and development of the North America flora during pre-glacial, glacial and post-glacial periods; centers of dispersal. Phytogeographic classifications of the vegetation of North America. Prerequisites: Courses 21 and 22. Two hours attendance. Four hours laboratory work or assigned readings. Two hours credit. First semester. Pool

27. **The Phytogeography of Nebraska**—A special study of the vegetation and the vegetation regions of Nebraska by means of lectures, laboratory work, assigned readings and conferences. The course will include an

examination of the sources and composition of the flora of Nebraska and the development and structure of the vegetation of the Prairies and Great Plains. Prerequisites: Courses 21, 22 and 26. Two hours attendance. Four hours laboratory work or assigned readings. Two hours credit. Second semester. Pool

IV. Technical Botany

33. **Field Botany**—An introductory course intended to acquaint students and teachers with some of the materials and methods of out-of-door work in botany. Suggestions for those intending to teach in the grades, the high schools and the colleges. Prerequisites: Courses 1 and 2. Two lectures. Four hours field and laboratory work. Two hours credit. First semester. Pool

34. **Field Botany**—33 continued. Suggestions as to the composition and arrangement of the high school course; what to do in the laboratory; what to do in the field; how to collect material and to prepare it for future use; the preparation of the herbarium and other illustrative material; books, guides and other useful literature; sources of materials and supplies. Prerequisites: Courses 1, 2 and 33. Two lectures. Four hours field and laboratory work. Two hours credit. Second semester. Pool

COURSES FOR GRADUATES ONLY

(The student may register for any one of these courses year after year until the completion of his problem.)

37. **Mycological Problems**—Assigned problems in field and laboratory. Five to ten hours credit. First semester. Bessey, L. B. Walker

38. **Mycological Problems**—37 continued. Second semester.

39. **Economic Botany**—An advanced study of the uses of plants; the origin, distribution, and modifications of cultivated plants; and the systematic botany of the plants used by man. Open only to students who have had a sufficient training in systematic botany. Five to ten hours credit. First semester. Bessey

40. **Economic Botany**—39 continued. Second semester.

41. **Systematic Problems**—Assigned problems in the field and herbarium. Five to ten hours credit. First semester. Bessey, Pool

42. **Systematic Problems**—41 continued. Second semester.

43. **Morphological Problems**—Assigned problems in the morphology of a plant, or group of plants. Five to ten hours credit. First semester.
Bessey, E. R. Walker
44. **Morphological Problems**—43 continued. Second semester.
45. **Ecological Problems**—Assigned problems in field and laboratory. Five to ten hours credit. First semester. Pool
46. **Ecological Problems**—45 continued. Second semester.
47. **Physiological Problems**—Assigned problems in field and laboratory. Five to ten hours credit. First semester. Pool
48. **Physiological Problems**—47 continued. Second semester.
49. **Pathological Problems**—Assigned problems in field and laboratory. Five or ten hours credit. First semester. Wilcox, L. B. Walker
50. **Pathological Problems**—49 continued. Second semester.

CHEMISTRY

Professor Dales (*Head of Department*), Associate Professor Borrowman,
Assistant Professor Fossler, Assistant Professor Frankforter,
Mr. Lewis, Miss Miller

GENERAL INFORMATION

Courses A, B, 1, 2, and 3 give a general knowledge of the aims, principles, and methods of the science. These courses, with 29, and eight hours electives in the department, fit students to teach chemistry in high schools and thus form a major for the University Teachers' Certificate. They serve also as a foundation for a thorough and exact scientific training. In them the student is given a general survey of the field of chemistry. both inorganic and organic, including the nature of chemical processes and the use of chemical apparatus.

Courses for the Arts and Sciences college major shall include A, B, 1, 2, 3, 7, and 34 or 8 or 21 and 22 or 14. For the minor requirement in the Arts and Sciences college the 12-hour minimum must include Courses 1, 2, 3 and 3 hours of advanced elective. A student entering without 2 points credit in chemistry will have to add Chemistry D to the above 12 hours.

The following sequence of courses is recommended for students in the general groups who specialize in chemistry:

First Year—Consult the head of department or associate in regard to registering for A and B, 1 and 2, or whether all four courses should be completed during the first year.

Second year—For students who have completed 1 and 2, Courses 3, 5, 7.

Third year—Courses 8, 14, 34, 26 or 44.

Fourth year—Courses 15, 16, 21, 22, 25, 27 or 39, 40.

Courses A, B, 1, 2, 3, 5, 14, 29, 34 and 41 are primarily for undergraduates.

Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40, 43, and 44, are for the following classes of students:

1. Undergraduates who specialize in chemistry.
2. Graduates, particularly those who select chemistry as a minor for advanced degrees.

GRADUATE WORK

Graduate work in Chemistry is based upon the assumption that the student has had Courses A, B, 1, 2, 3, 25, and 26 or their equivalents. Courses 5, 7, and 8 are regarded as fundamentals and must be taken before a student may pursue chemistry as a major subject.

Students may pursue any special line of work in which they may have become interested as a result of advanced work in this or other universities. The opportunities for young men in technical work, especially assaying, railway chemical work, various manufacturing concerns, experiment station and government work are continually on the increase. Many of the latter are open to young women. The demand for good science teachers is always greater than the supply.

Several graduate assistantships (paying \$400 a year and fees) and at least one fellowship and one scholarship are given to promising applicants each year. They may be renewed for a second year. The holder is required to give about half of his time to instruction in the general courses. Application should be made to the head of the department not later than April first.

Courses for advanced degrees usually lie in experimental chemistry and chemical theory, much latitude being allowed in respect to the exact topics. The attainment of a degree depends more upon the candidate's ability to think clearly and closely than upon the accomplishment of a fixed amount of work.

Master of Arts—Minors: Four to six hours selected from Courses 7, 8, 15, 16, 21, 22, 26, 27, 39, 40 and 44 with consent of the head of the department. Major: Advanced work along one of the lines indicated by courses above named and a thesis.

Doctor of Philosophy—Minors: Not less than six hours class work selected by the candidate upon consultation with the head of the department. Major: Graduate study and the preparation of a thesis which

shall mark an advance in knowledge among the line of the subject chosen. The exact time requirement cannot be given, but shall be at least the minimum required by the University for the degree. The candidate for the doctorate from this department must choose two minors from allied subjects.

General Chemistry

¹ A. **General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester. Given in Summer Session, 1914.

Dales, Lewis, Miller

¹ B. **General Chemistry**—Continuation of course A. Especial attention is given to the metallic elements, the more common organic compounds and the applications of chemistry to every day life. Prerequisite: Course A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1914.

Dales, Lewis, Miller

¹ D. **The Non-metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for course 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester. May be taken as course Da with four hours laboratory work instead of seven for three hours credit instead of four, by Home Economics and College of Agriculture students only.

Dales, Lewis, Miller

¹ A and B are not to be confused with courses of the same designation given prior to 1908. These courses are designed to present the subject to students in the College of Arts and Sciences. No previous training in chemistry is required. The course previously termed A, is now replaced by course D, while the older B is now designated combined 1 and 2.

In general, students desiring to study chemistry, who enter the University with two points credit, should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise by the department, to register as follows: Those in the College of Arts and Sciences, in the Teachers College and in the Home Economics group in the College of Agriculture will register for Chemistry A. Students in the College of Agriculture other than those just mentioned, the College of Engineering, and the College of Medicine will register for Chemistry D.

[26. **History of Chemistry**—Lectures; the elaboration of an assigned topic by each student. Prerequisite: Courses 1, 2, and 3. Two hours attendance. Two hours credit. Second semester. *Given in 1915-1916 and alternate years thereafter.* Dales]

28. **Advanced Inorganic Chemistry**—Elements discussed in order in which they occur in periodic table. Special consideration to the properties and interrelations of the groups. The rarer elements given detailed treatment. Lectures illustrated by experiments. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Three hours credit. Second semester. Dales

29. **Teachers' Special Methods in Chemistry**—Discussion in detail of the methods and procedure in teaching high school chemistry. Guiding principles in the selection and use of subject-matter and laboratory exercises. Supplies, apparatus and equipment for a laboratory. Efficient laboratory service. Educational aims, and relation of class-room instruction to laboratory work. Choice of text and reference books. Prerequisite: Courses 1, 2, 3. Two hours attendance. Three hours laboratory. Two hours credit. First semester. *Given in Summer Session, 1914.* Brownell

30. **Teachers' Laboratory Course in Chemistry**—A semester of teaching of classes in high school chemistry under closest critical supervision. Involves (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of the high school chemistry classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Chemistry 29. Two hours conference. Four hours laboratory or three hours teaching. One or two hours credit. First and second semesters. Brownell

44. **Theoretical Chemistry**—Principles and theories of general chemistry. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915 and alternate years thereafter.*

Analytical Chemistry

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, Da, or 2 credit points. Two hours attendance. Four hours laboratory. Four hours preparation. Three hours credit. First semester. Borrowman, Lewis, Miller

2. **Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Four hours preparation. Three hours credit. Second semester. Borrowman, Lewis, Miller

1 and 2 (combined), **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Eight hours preparation. Six hours credit. Second semester. Given in Summer Session, 1914. Dales, Lewis, Miller

5. **Qualitative Analysis**—Study of characteristic reactions for the rarer elements and their application to analytical purposes; elementary spectroscopic analysis; dry way reactions. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First and second semesters. Given in Summer Session, 1914. Dales

7. **Quantitative Analysis**—Gravimetric determinations of the more important bases and acids, including complete analysis of one limestone and one alloy. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1914. Frankforter

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis and sanitary analysis of water. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. First and second semesters. Given in Summer Session, 1914. Frankforter

20. **Dental Chemistry**—Chemistry and metallurgy as applied to dentistry. Two hours lecture. Four hours laboratory. Two hours credit. Second semester. Borrowman

21. **Assaying**—Lectures, readings and laboratory work on the qualitative examinations of the common minerals and ores and the quantitative determinations of gold, silver and lead in ores, and metallurgical products. Students are urged to take along with the assaying courses, or preferably before, courses 15 and 16 in Geology. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman

22. **Assaying**—Lectures, readings and laboratory work on the quantitative analysis of ores and metallurgical products by wet methods, including the tests made in cyanide practice. May be taken without having had course 21 providing the student first takes up the qualitative work of course 21, for which credit will be given. Prerequisite: Courses 1 and 2.

Two hours attendance. Four to thirteen hours laboratory. Two to five hours credit. Second semester. Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester. Given in Summer Session, 1914.

40. **Advanced Analytical Chemistry**—39 continued. Second semester. Given in Summer Session, 1914. Dales

Organic and Physiological Chemistry

3. **General Organic Chemistry**—The important classes of organic compounds of the aliphatic and benzene series. Derivatives. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester. May be taken as course 3a with four hours laboratory work instead of eight for four hours credit instead of five, by Home Economics and College of Agriculture students only. Fossler

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2, and 3. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Fossler

16. **Advanced Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—Comparative study of plant and animal chemistry. Designed for those interested in biology. Prerequisite: Courses 1, 2, 3. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. Second semester. Fossler

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; evaluation of foods, preservatives, cleansing agents, etc., with a practical laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2, and 3. Five hours lecture with demonstrations. Eight hours laboratory. Five hours credit. Second semester. Fossler

43. **Nitrogen Chemistry**—An elective course of one hour lecture a week on the evolution of compounds of nitrogen, their properties, and products of dissociation. Prerequisite: General inorganic and organic chemistry. One hour credit. First semester. Fossler

Physical Chemistry

25. **Physical Chemistry**—Elementary course, the general principles of physical chemistry with applications to chemistry and to other sciences; designed for students in the Arts and Sciences and Medical Colleges. Prerequisite: Courses 1, 2, and 3. Two hours lecture. Two hours credit. First semester. Dales

27. **Physical Chemistry**—Laboratory course. Methods of most general application to chemistry. May be taken with or after course 25. Six hours laboratory. Two hours credit. Second semester. Dales

Technical Chemistry

23. **Engineering Chemistry**—Lectures and readings on the sources, manufacture, composition (with special reference to efficiency) and behavior, under various conditions, of the materials of engineering—iron and steel and other metallic materials, wood, stone, clay, mortars, and cements, fuels, water, lubricants, paints and varnishes, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters. Borrowman

23a. **Engineering Chemistry**—A laboratory course for engineers and others who wish to do more than is required in course 23. May be taken with or after course 23. Students may select work according to interest and needs and arrange with instructor for readings and laboratory hours. Prerequisite: Courses 1 and 2. Hours credit dependent on amount and quality of work done. Borrowman

EDUCATION COURSES

The courses of instruction in Education are given in the exhibit of the Teachers College. These courses are open, however, to students of the College of Arts and Sciences.

ELOCUTION

(See School of Fine Arts)

ENGLISH LANGUAGE AND LITERATURE

Professor Sherman (*Head of Department*), Professor Stuff, Professor Wallace, Professor Pound, Assistant Professor Scott

GENERAL INFORMATION

Courses 1 and 2, dealing with elements and first principles of criticism, are introductory to all the other work of the department.

The University Teachers' Certificate—Because of the need of preparation in both Rhetoric and English Literature for certificated teachers, no majors or minors are offered or accepted in either subject singly. A combined major or a combined minor is provided for such as are preparing to teach English in secondary grades. The combined major embraces courses 1, 2, 11, 12 in Literature, and courses 3, 4, 7, 8 in Rhetoric. The combined minor includes course 1 in Literature, and course 7 in Rhetoric. But with each major or minor, courses 17, 18, in English Literature, must be taken, as fundamental in either subject.

Graduate Work

Students intending candidacy for the degree of Master of Arts must have completed the two years of preparation represented by courses 1, 2, 5, 6, 11, 12. Work will be arranged for each from courses beginning with No. 15 below, but major programmes must include courses 17, 18 and in general 35, 36.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **English Literature**—Studies introductory to criticism. Literary elements and principles, with illustrative study of modern poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Given in Summer Session, 1914.

Stuff, Scott

2. **English Literature**—Studies introductory to criticism. Literary elements and principles, continued; short story, dramatic monologue, and poetry and prose. First and second semesters. Three hours attendance. Three hours credit.

Stuff, Scott

3. **Shakespeare**—First studies in the literary art of this author. *Macbeth*, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester

Scott

4. **Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester.

5. **The History of English Literature**—A survey of the development of English Literature; the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer Spenser, Milton, and others. Three hours attendance. Three hours credit. First semester. Pound

6. **The History of English Literature**—5 continued. Second semester.

7. **Comparative Literature in English**—Intensive study of Job and other Hebrew literature. Comparative studies on kindred themes, from Greek, Celtic, English, Spanish, and German literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester. Stuff

8. **Comparative Literature in English**—Literary art in Matthew, Mark, Luke, and John. Comparative studies from Swedish, French, Italian, English, and American literature. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. Second semester. Stuff

9. **Nineteenth Century English Poets**—English poets from 1798 to 1900. The romantic movement of the early nineteenth century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Landor. The Victorian period. Tennyson, the Brownings, Clough, Arnold, Rossetti, Morris, Swinburne. Preliminary completion of courses 5 and 6, though desirable, is not essential. Two hours credit. First semester. Pound

10. **Nineteenth Century English Poets**—9 continued. Second semester.

11. **English Literature**—Literary art and diction. Studies in the development of modern prose. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester. Sherman

12. **English Literature**—11 continued. Daily written exercises of appreciation and criticism, in selected specimens of best literature. Two hours attendance. Two hours credit. Second semester. Sherman

14. **American Literature**—Its relation to the national life and thought. Lectures, collateral readings, and reports. Two hours credit. Second semester. Pound

COURSES FOR UNDERGRADUATES AND GRADUATES

15. **Current Comparative Literature**—Literary art of today. Comparative view of means, modes, and influences. Study of chief authors in

Scandinavian, German, Russian, French, Italian, as well as English and American writers. Prerequisite: Courses 1 and 2. Class limited to twenty. Admission by conference with instructor. Acquaintance with French and German or Italian is desirable, but not essential. Two hours attendance. Three hours credit. First semester. Scott

15a. **Library Course in 16th and 17th Century Authors**—Lectures, reports, and criticisms. Two hours attendance. Three hours credit. First semester. Sherman

16. **Current Comparative Literature**—15 continued. Two hours attendance. Three hours credit. Second semester.

16a. **Library Course in 18th Century Authors**—Lectures, reports and criticisms. Two hours attendance. Three hours credit. Second semester. Sherman

17. **Essentials of Old English: Outline of Old English Grammar**—Reading at earliest moment of prose and poetic specimens. *Beowulf*, through 500 lines. Introductory to the history of the English language and the history of Old English literature. Four hours attendance. Four hours credit. First semester. Pound

18. **Old and Middle English and History of the English Language**—17 continued. *Beowulf* continued. The development of the language traced from Old to Modern English, the history of inflections, sound changes, spelling, etc. Outline of Middle English grammar. Reading of selected Middle English texts before Chaucer. Four hours credit. Second semester. Pound

19. **The Novel**—Its relation to the expression of life. Study of modes and art principles in the interpretation of life. Two hours attendance. Two hours credit. First semester. Stuff

20. **The Novel**—19 continued. Two hours attendance. Two hours credit. Second semester.

21. **Elizabethan-Jacobean Drama**—Shakespeare's contemporaries to the readjustment of the theaters, 1610. Reciprocal influences. Principles of the drama. Study of the play-houses. Prerequisite: Courses 1 and 2. Two hours attendance. Weekly conferences. Three hours credit. First semester. Wallace

22. **Elizabethan-Jacobean Drama**—21 continued. Shakespeare's contemporaries and successors from 1610 to 1642. Introduction to scientific methods of investigation. Two hours attendance. Weekly conferences. Three hours credit. Second semester. Wallace

23. **Browning**—Written studies of *Luria*, *Return of the Druses*, *Pippa Passes*. Two hours attendance. Two hours credit. First semester.

Sherman

24. **Browning**—23 continued. *The Ring and the Book*, *Sordello*. Second semester.

25. **Shakespeare**—Advanced studies in dramatic art, as represented in *Cymbeline*, *The Winters Tale*, *Coriolanus*. Two hours attendance. Two hours credit. First semester.

Sherman

26. **Shakespeare**—25 continued. *Romeo and Juliet*, *Twelfth Night*, *King Lear*. Two hours attendance. Two hours credit. Second semester.

27. **English Ballads**—Introduction to the study of popular poetry. Reading of selected ballads of English and Scotland, with some references to ballads in other literatures. The ballad revival in the eighteenth century. Modern imitative ballads. One hour attendance. One hour credit. First semester.

Pound

28. **English Lyric Poetry**—Nature of the lyric. Survey of leading lyric kinds and types: ballads, sonnets, odes, elegies, etc. History of the English lyric. Two hours attendance. Two hours credit. First semester.

Pound

29. **Teachers' Course in English Language and Literature**—A practical study of the synthetic, interpretative and technical phases of presenting this subject in all primary and secondary grades. Special attention given to outlining of courses, development of material, selection of books for school libraries and home readings. Experience in the preparation and presentation of topics will be gained in connection with the Teachers College High School Practice Course in Teaching the English Language and Literature. Lectures, written reports, observation reports, criticism, library readings. Prerequisite: Courses 1, 2, 11, 12. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1914.

Sherman, Stuff

30. **Teachers' Course**—29 continued. Prerequisite: Courses 1, 2, 11, 12, 17, 29. Two hours attendance. Two hours credit. Second semester.

Stuff

31. **Teachers' Practice Course**—Daily practice in teaching. Study of problems arising from actual conditions in the class room. One teachers' conference each week. Prerequisite: Courses 1, 2, 11, 12, 29, 30. Two hours credit. First and second semesters.

Stuff

33. **Principles of Dramatization**—Construction in the drama of Shakespeare, Moliere, Schiller, Goethe, and Victor Hugo. Two hours attendance. Two hours credit. First semester. Sherman

34. **Principles of Dramatization**—33 continued. Construction in the drama of Corneille, Caldron, Goddoni, Maeterlinck, Ibsen, and in the classic drama. Second semester. Sherman

COURSES PRIMARILY FOR GRADUATES

35. **Advanced Old English**—Open to students who have a working knowledge of the language. The special mode of study varies according to the needs of equipment of the class. Serves often as an introduction to comparative Teutonic philology. Outline of general phonetics included if necessary. Precedent or accompanying study of Gothic and Old High German recommended. Two hours attendance. Two hours credit. First semester. Pound

36. **Advanced Old English**—35 continued. Second semester.

37. **History of Old English Literature**—Reading of texts in translation. Study of textual and manuscript criticism, disputed readings, dates, problems of authorship and interpolation, historical and mythological elements, history of opinion, etc. One hour attendance. One hour credit. First semester. Pound

38. **History of Old English Literature**—37 continued. Second semester.

39. **Play Construction**—Intended for specially adapted students who wish to work along the lines of practical play writing. An intensive study of the fundamental principles of the acting drama and an application of these principles in original construction and criticism. Primarily, a writing and practice course, including the guidance of the student not only through the making of a produceable play but its actual stage presentation. Admission by consent of instructor. Two hours attendance. Two hours credit. Scott

40. **Play Construction**—39 continued. Two hours attendance. Two hours credit.

41. **Seminary in English Literary Prose**—Study of development and excellencies. Two hours attendance. Two hours credit. First semester. Sherman

42. **Chaucer**—Literary and linguistic studies. Informal lectures on contemporary fourteenth century life and literature. Two hours attendance. Two hours credit. Second semester. Pound

43. **Seminary in Criticism**—Two hours attendance. Two hours credit. First semester. Sherman

44. **Seminary in Present Literary Forms and Tendencies**—Two hours attendance. Two hours credit. Second semester. Sherman

45. **Celtic Sentiment and Thought in its Relation to English Literature**—A survey of early Irish and Welsh literature with special study of the Arthurian sources. Admission on consent of the instructor. Two hours attendance. Two hours credit. First semester. Stuff

46. **Celtic Sentiment and Thought in its Relation to English Literature**—45 continued. Celtic influence upon the English romantic movement. Two hours attendance. Two hours credit. Second semester. Stuff

47. **Seminar**—Studies in the Elizabethan drama. Investigations of special topics. Methods of scientific research. Consultations and formal reports. Admission upon approval of instructor. Two hours attendance. Two hours credit. First semester. Wallace

48. **Seminar**—47 continued. Direction of individual studies in the drama, novel, short, or other literary form. Modern scholastic methods of research. Two hours credit. Second semester.

ENGLISH HISTORY

Professor Jones (*Head of Department*)

English history occupies a position intermediate between general European history and American history, leading from the one and into the other. It affords perhaps the best introduction to the general history of the modern world, which is touched at more points by the growth of the British Empire and the extension of the English language and institutions than by any other historical subject. Students of English literature, of law, economics and sociology will find this field of special importance.

Order of Courses—Those who have had English history in the high-school are urged to proceed at once to courses 3 and 4, or to select courses covering unfamiliar ground in American or European history.

Academic Majors and Minors—The requirement for an academic major or an academic minor in English history may be satisfied by selecting

under proper advice the necessary number of hours from the courses of this and allied departments.

The University Teachers' Certificate—The major requirement for a University Teachers' Certificate is from 24 to 32 hours, at the student's option. In English history this will be satisfied by courses 1, 2, 3, 4, 11, 12, American history 11, and from 5 to 13 hours in American and European history, or either. The requirement for a minor of 12 hours is courses 1, 2, 3 and 4. The addition of four hours in American or European history will constitute a minor of 16 hours. In case a student has had English history in the high school, other courses will be substituted for 1 and 2.

The Degree of Master of Arts—The requirements for the degree of master of arts with English history as a major are: (1) An accurate and comprehensive knowledge of the outlines of English history, and a more detailed knowledge of some period; an acquaintance with the literature of the special period; a general acquaintance with American and European history; and (2) a thesis based upon an exhaustive study of the source and secondary material in some narrow field of English history.

The thesis will be written in seminar 11 or 12, but the candidate will be expected to show greater independence and initiative than the other members of the seminar, and to devote to the subject a large amount of time which cannot be determined in advance. For this reason, it is not always possible for even a well prepared student to meet all the requirements in one year; but it should be possible to satisfy the requirement of residence.

For those desiring a minor in English history, courses will be arranged in consultation with the candidate's major adviser.

1. **English History to 1603**—A general introductory course. Three hours attendance. Three hours credit. First semester. Jones

2. **English History from 1603-1815**—A continuation of course 1, expanded to include the history of the British Empire. May be taken without course 1. Three hours attendance. Three hours credit. Second semester. Jones

3. **England during the Nineteenth Century**—A continuation of course 3, but in greater detail and involving a more constant use of sources, including the rich field of English memoirs. Open to juniors and seniors; also to sophomores who have taken course 2, or European history 1 and 2, or English history in the high school. Three hours attendance. Three hours credit. First semester. Jones

4. **Recent English History**—The domestic, imperial and foreign politics of England since circ. 1900; European diplomatic relations; and

if the time permits, a survey, for purposes of comparison, of the domestic politics of some of the other leading nations. Must be preceded by course 3. Three hours attendance. Three hours credit. Second semester.

Jones

11. **Seminar**—The Anglo-Portuguese Treaty of 1654, based upon a nearly complete transcript of the manuscript material in English and Portuguese archives, supplemented by all the existing printed material. Open to graduate and advanced students upon consent of the instructor. Two hours attendance. Two hours credit. First semester.

Jones

12. **Seminar**—The Anglo-Portuguese Treaty of 1661, based upon material as in course 11. Open to graduate and advanced students upon consent of the instructor. Two hours attendance. Two hours credit. Second semester.

Jones

ENTOMOLOGY

Professor Bruner (*Head of Department*), Professor Swenk

Courses 1 and 2 are open to all students, and they, or their equivalent, must precede 5, 6, 15, 16, 17 and 18.

GRADUATE WORK

A candidate for the degree of Master of Arts in entomology must have had Zoology 1 and 2, or their equivalents, in addition to Entomology 1 and 2. He should be able to read Latin and either French or German, or both.

The department has at the University Farm a laboratory fully equipped for the use of students engaged in research work along systematic lines, and a modern insectary well provided with apparatus useful in facilitating research in economic entomology, such as breeding cages, cameras, dark room and aquaria, for those investigating the life-histories of insects. The research laboratory is supplied with compound and dissecting microscopes, microscopical accessories, camera lucida, lanterns and slides and illustrative models and charts. A collection of insects numbering approximately 200,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica, Mexico and the Philippine Islands collected

by Professor Bruner on entomological excursions to these countries. The library contains practically complete files of all the American and the principal foreign entomological periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

Master of Arts—As his major for the degree of Master of Arts the student may choose either courses 15 and 16 or 17 and 18. He may elect his first and second minors from the other courses offered as graduate studies in allied departments. The graduate work of this department is of so technical a nature, being chiefly designed to prepare students as government, state or experiment station investigators in entomology or as museum scientists, that each student should consult with the head of the department before registering.

FOR UNDERGRADUATES

1. **General Entomology**—A general survey of the class Insecta, with introductory lectures on the structure, physiology, transformations, distribution and behavior of insects, followed by a consideration of the characteristics of the orders, suborders and principal families of insects, and the life-history and habits of typical species. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bruner

2. **General Entomology**—1 continued. In addition, a general consideration of the more striking phenomena to be observed in a study of insect life, and general work in the collection and classification of insects. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Bruner

PRIMARILY FOR UNDERGRADUATES

5. **Systematic Entomology**—A close study of the principles and machinery of classification as applied to insects, involving a consideration of current taxonomic methods in entomology, of nomenclatural codes and of faunal areas, designed especially to acquaint the student with the literature of entomology and the approved methods of preparing data for publication as a foundation for research work in systematic entomology. Laboratory work with the various insect groups, designed to give a conception of

the varying value of classificatory characters. Two hours attendance. Seven hours laboratory. Three hours credit. First semester. Swenk

6. **Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique, involving methods of collecting, preparing and preserving insects for the cabinet and museum and the use of apparatus necessary in entomological work. Two hours attendance. Seven hours laboratory. Three hours credit. Swenk

9. **Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, controlling the colony growth, rearing of queens, honey and wax production, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours directed reading. One hour credit. First and second semesters. Bruner

10. **Domestic Entomology**—A brief general survey of insect life, emphasizing especially the insects affecting the household, such as silver fish, cockroaches, termites, house flies, mosquitoes, fleas, house ants, clothes moths, flour and meal pests, etc., with thorough discussions of means of control. Two hours attendance. Four hours directed reading. Two hours credit. First semester. Swenk

11. **Forest Entomology**—Lectures and laboratory studies on the insects of the forest. Two hours attendance. Seven hours laboratory. Three hours credit. Second semester. Bruner

(Courses 12 and 13 not to be given in 1914-1915.)

14. **Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting at intervals for the presentation of papers and the discussion of current entomological literature. Time spent at these meetings and in the preparation of assigned papers or reviews may be applied as laboratory work.

PRIMARILY FOR GRADUATES

(These courses may be registered for repeatedly until the completion of the problem)

15. **Research in Systematic Entomology**—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Bruner

16. **Research in Systematic Entomology**—15 continued. Second semester.

17. **Research in Economic Entomology**—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester.

Bruner

18. **Research in Economic Entomology**—17 continued. Second semester.

EUROPEAN HISTORY

Professor Fling (*Head of Department*), Assistant Professor Pfeiffer,
Miss Needham

GENERAL INFORMATION

The undergraduate courses in European History are intended for the following classes of students:

1. Those who are preparing to teach history in the high school or in the college. Courses 1 and 2 should be taken the first year; courses 5 and 6 with 17 and 18, or 19 and 20 the second year; 47 and 48, or 17 and 18, or 19 and 20, the third year. This is the minimum requirement in European History for the University Teachers' Certificate. Students are strongly urged to elect in addition in the senior year a seminary and the Teachers' Course (45 and 46, or 47 and 48). The languages needed in the advanced work, especially French, should be taken up in the first and second years. Students are advised to consult with the head of the department (during registration week) concerning their work.

2. Those who are specializing in language and literature. Courses 7 and 8 are intended for students of German literature, and may be taken by those who have not had courses 1 and 2.

3. Those who are preparing for law or debate will find especially valuable the training in the use of evidence given in courses 1 and 2. The same courses are helpful to students of economics and sociology.

GRADUATE WORK

The department offers excellent opportunities for graduate study on the French revolution and the Napoleonic era. The collection of sources and secondary works upon the early revolution is the best in the west and one of the best in the country. On the Napoleonic era the department has recently acquired the valuable Oncken collection of manuscripts, containing

the correspondence of the most distinguished English diplomats during the years 1812-1815 inclusive. Each year special courses and seminaries are offered on these two periods. In the seminaries, the student is introduced in a critical way to the best sources and investigations are begun that may lay the foundation for research work abroad. To take advantage of these courses, the student should have had general courses on the French revolution and the Napoleonic era, some undergraduate training in the use of sources, and should have acquired a reading knowledge of French. With such a preparation, it is possible to take the master's degree in one year. When the student is not properly prepared, the training may be secured in the undergraduate course offered by the department. This preparatory work may be done in one year, if the student has already acquired in undergraduate courses a fair working knowledge of European history.

Master of Arts—Second Minor: At least eight hours of graduate work; two years of undergraduate work are required before graduate work can be entered upon. First Minor: Same as 1, 2, 3, and 4 for major. Major: (1) An acquaintance with the history of Europe from the beginning of Greek history to the last quarter of the nineteenth century; (2) a knowledge of the literature of European history, consisting of the best known sources in English, French and German, and the most important works of secondary writers; (3) an acquaintance with bibliographical aids and historical atlases; (4) a theoretical knowledge of the methods of historical research; (5) a thesis based on the sources.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **European History from the Germanic Migrations to 1871**—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester.

Fling, Pfeiffer, Needham

2. **European History**—1 continued. Second semester.

5. **The Struggle between the Empire and the Papacy**—Prerequisite: Courses 1 and 2. Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. First semester. Pfeiffer

6. **The Crusades**—Required for the University Teachers' Certificate. Three hours attendance. Three hours credit. Second semester. Pfeiffer

7. **German History to 1618**—For students who are preparing to teach German and have had two years of German. Three hours attendance. Three hours credit. First semester. Needham

8. **German History after 1618**—7 continued. Second semester.

45. **Teachers' Course in Greek History**—Must be preceded by 1 and 2. Two hours attendance. Two hours credit. First semester. Fling

46. **Teachers' Course in Greek History**—45 continued. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

17. **The French Revolution**—Open to students who have had one year's work in the department. Two hours attendance. Two hours credit. First semester. Fling

18. **The Napoleonic Era**—The requirements are the same as for course 17. Two hours attendance. Two hours credit. Second semester. Fling

[19. **Europe in the Nineteenth Century**. The requirements are the same as for course 17. Two hours attendance. Two hours credit. First semester. *Given in 1915-1916.* Fling]

[20. **Europe in the Nineteenth Century**—19 continued. Second semester. *Given in 1915-1916.*]

23. **Seminary on the French Revolution**—One hour attendance. One hour credit. First semester. Fling

24. **Seminary on the French Revolution**—23 continued. Second semester.

59. **Seminary on Napoleonic Period**—One hour attendance. One hour credit. First semester. Needham

60. **Seminary on Napoleonic Period**—59 continued. Second semester.

COURSES PRIMARILY FOR GRADUATES

25. **Historical Methods**—Detailed lectures on the problems of historical research and construction, accompanied by readings in the best English, French, and German monographs and by practical exercises. One hour attendance. One hour credit. First semester. Fling

26. **Historical Methods**—25 continued. Second semester.

49. **Seminary on French Revolution**—One hour attendance. One hour credit. First semester. Fling

50. **Seminary on French Revolution**—49 continued. Second semester.

57. **The Convention**—One hour attendance. One hour credit. First semester. Fling

58. **The Convention**—One hour attendance. One hour credit. Second semester. Fling

FRENCH

(See Romance Languages)

GEOGRAPHY AND CONSERVATION

State Conservation and Soil Survey

Professor Condra (*Head of Department*), Professor Brownell, Professor Loveland, Associate Professor Bengtson, Mr. Skinner, Mr. Rockie, Miss Nelson

Courses 1, 2 and 4 are required in Forestry and 1, 4, and 28 in Agriculture. The industrial courses 5 and 6 are open to all students. They are introductory to and correlate closely with courses 3 and 4 in the department of Political Economy. Field courses are planned separately for men and women. Courses 1, 5, and 21 are well adapted to the needs of Engineering students. Persons preparing to teach Geography should consult with the head of the department concerning the choice and sequence of courses. The election for majors and minors will vary with the individual needs of the student.

By co-operation with other departments this department is able to offer preparation for work in Soil Survey and Real Estate. Certain courses may be grouped after the general requirements of the Colleges of Agriculture and Arts and Sciences are met, affording specialization along the above lines during the sophomore, junior and senior years. Students wishing to take advantage of this training should elect their Major in the department of Geography and Conservation, and on first consultation with the departmental adviser should indicate which one of the vocational lines he intends to follow. With approved substitutions and electives students can prepare appropriately in the Civil Engineering and Agricultural groups, for work in soil surveys. Graduate instruction leading to the second and third degrees is offered. Theses are based on original work done in the laboratory and field.

1. **Lands**—A lecture and laboratory course. Some of the topics treated are: Materials of the land; common minerals and rocks; structures;

relief features; origin and detailed description of the land forms produced by wind, ground water, rivers and glaciers; classification and interpretation of maps. Lectures fully illustrated by lantern slides, maps, models and specimens. Two hours attendance. Two hours laboratory and two hours library preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson, Rockie

2. **North America**—A summary study of the political divisions, relief, drainage, coast lines and climate. A full treatment of each of the seventeen topographic regions, including their structure, topography, physiographic development, resources and industries. The Great Plains Region is emphasized. The course is suited to all students who wish a knowledge of the geography of our country. Lectures illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester.

Condra, Bengtson, Rockie

3. **Europe and Asia**—A summary of the larger physiographic features of Eurasia, followed by a close study of the more important commercial countries, especially in their relations to the United States. Chief attention is given the geographic influences which have controlled the industrial development of the different countries. The relations of climate, structure, topography, position, and people to national progress are emphasized. A course designed to be especially helpful to students of history and those contemplating European travel. Open to all. Two hours credit. First semester.

Bengtson

4. **The Atmosphere**—(Meteorology). The course is designed to meet the practical needs of students in agriculture and forestry. Some of the topics considered are: The composition of the atmosphere; distribution of heat and atmospheric pressure; wind systems; humidity and rainfall; storms; hot winds; changes and fluctuations of climate; climatology in its relation to deserts, prairie land, forests, agriculture, and the distribution of people. Students are taught the construction of weather maps and climatic charts, forecasting, and the use and care of meteorological instruments. Two hours attendance. Four hours laboratory and preparation. Two hours credit. First and second semesters.

Loveland

5. **Industrial Geography**—This course covers the mineral fuels, iron, forest, and water resources of the United States and their conservation or development. Studies are made of the following: Coke, coal, petroleum, iron and steel, lumber, turpentine, pulpwood, rubber, and water power. Lectures fully illustrated by slides, motion pictures, charts, and specimens.

Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson

6. **Agricultural Industries**—Practical studies are made of the following industries: Cotton, tobacco, corn, wheat, rice, beet sugar, cane sugar, apples, poultry, cattle and sheep. The processes involved in converting raw materials into the finished articles of commerce are emphasized. The forms, processes, and commercial relation are illustrated by means of specimens and well selected sets of lantern slides and motion pictures. This is a course in practical agricultural industry. Two hours attendance. Four hours library, museum, and preparation. Two hours credit. Second semester.

Condra, Bengtson

7. **Methods in Physical Geography**—This course deals primarily with the problem of presenting Physical Geography in the high school. Discussion of subject matter and methods of teaching. Collection and use of reference books and illustrative materials. Selection of laboratory exercises. Purpose and management of field excursions. Should be preceded by Geography 1 and 2, or equivalent. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Condra, Nelson

11. **Teachers' Laboratory Course in Physical Geography**—Eight hours laboratory and supervision. Two hours credit. First and second semesters.

(a) Involves working a selected list of exercises suitable for use in high schools. The teacher's problems in preparing for these exercises are studied, and some time given to discussion of suitable demonstration experiments for class use. Serves to prepare students for actual laboratory supervision. Four hours laboratory and conference. One hour credit. First and second semesters.

Nelson

(b) Involves class management, preparation for class instruction making of lesson plans, review of examination papers, provision for desk experiments; direction of laboratory work with sections of the Geography classes in the high school, care of the laboratory and its supplies, preparation in advance for experimental work, assistance to pupils at the tables, and review of laboratory papers handed in.

Nelson

12. **Laboratory Course in Regional Geography**—Intensive study of selected regions of the United States designed to furnish students the preparation necessary for accurate independent work. Two hours credit. Second semester.

Bengtson

17. **Seminar**—Primarily for graduate students. Special research problems. Credit determined by results and time. First semester.

Department Staff

18. **Seminar**—Course 17 continued. Second semester.

Field and Survey Courses

9. **Field Geography**—For women. Excursions are made to points of geographic interest near Lincoln, Milford, Pleasant Dale, Roca, South Bend and Louisville. A study is made of rivers, flood plains, terraces, drift deposits, rock ledges, escarpments, talus slopes, valleys, quarries, building materials, and sand dredging. Persons wishing the course should consult with one of the instructors before registering. Credit depending on time and results, usually one hour.

Nelson, Mrs. Condra

10. **Field Geography**—Course 9 continued. Second semester.

21. **Field Work**—Open to all men students. Excursions are made to the valleys of Salt Creek, Blue River and the Platte to study the various surface features, such as loess plains, drift hills, alluvial terraces, fans, flood plains, rock benches, talus slopes, spurs, and ridges. Sand dredges, gravel pits, clay pits, and quarries are examined and described. Use of the level, camera, and drawing materials as employed in surveys. Interpretation of topographies and origin of different classes of soil emphasized. Field trips on certain Saturdays. One or two hours credit. First and second semesters.

Bengtson, Skinner

22. **Field Work**—Course 21 continued. Plan table work added. First and second semesters.

23. **Soil Survey**—A field course in practical soil classification, description, and mapping. The methods used in state and national surveys exemplified. Designed for Agriculture, Engineering, and special students. Autos are used for field reconnaissance. Open to advanced students registered by permission. Two hours credit. First and second semesters.

Condra, Skinner

24. **Soil Survey**—Course 23 continued.

28. **Agricultural Geography of Nebraska**—A course emphasizing the physiography and industries of the state. The topographic and soil regions are carefully studied, especially with respect to their geography and agricultural relations. Lectures are given by men representing different phases of the state development and survey activities. Designed for those who wish to know Nebraska better. Lectures illustrated by slides, speci-

mens and motion pictures. Some field trips are made to places of physiographic and industrial interest. Two hours attendance. Two hours credit. Second semester. Bengtson, Skinner

GEOLOGY

Professor Barbour (*Head of Department*), Assistant Professor Schramm, Miss Barbour, Miss Webster, Miss Hinterlong, Mr. Ellis, Mr. Whitford

It is recommended that as far as practicable Elementary Botany, Chemistry 1 and 2, and Zoology precede the study of Geology. Training in Greek and Latin, and a working knowledge of French and German is especially commended to those pursuing professional courses.

Assaying—Chemistry 21 and 22—is strongly recommended to all students of mineralogy. A knowledge of Botany and Forestry is an important aid to Field Geologists.

Students preparing themselves for civil service examinations in Geology should study Civil Engineering 5 and 6.

Candidates for the University Teachers' certificate in this department should complete, for a minor, Courses 1, 2, 9, 13, 13A, and 29. Other courses, meeting special needs, may be arranged upon consultation.

The courses in this department are wholly elective. Courses leading to advanced degrees are arranged, on consultation, to meet the needs of candidates. As far as possible, courses are repeated each semester.

Geology

1. **Elementary Geology**—Dynamical. Collateral readings, examination and determination of about 200 common minerals and rocks. Three hours attendance. Two hours laboratory. Three hours credit. First semester. Barbour

2. **Elementary Geology**—Historical. Second semester. Three hours attendance. Two hours laboratory. Three hours credit.

3. **Advanced Geology**—Collateral readings. Experimental, laboratory and field work. Credit based on results. First and second semesters. Barbour

4. **Teachers' Course in General Geology**—A general survey of the fundamental principles of physiographic, structural, dynamical, and historical geology. Field excursions. Observation and interpretation of ordinary phenomena. Field notes, maps, sections, and the identification of materials collected. Study of a large number of characteristic minerals,

rocks, fossils, and specimens illustrating phases of structural geology. Two hours attendance. Four hours preparation and laboratory. Two hours credit. First and second semesters. Barbour, Hinterlong

7. **Practical Course**—Special teachers' course. Arranged on consultation. Three to five hours attendance. One or two hours credit. Second semester. Barbour, Webster

8. **Map Construction and Interpretation**—Teachers' course. Map drawing and coloring; modeling in papier mache, clay, wax and other media; making plaster and gelatine moulds; casting in plaster of Paris. Suited to various grades. One hour credit. First semester.

Barbour, Miss Barbour, Webster

13. **Applied Geology** (Follows Geology 1 or 2)—Elementary lithology, mineralogy, paleontology, field work, map drawing, etc. Designed for students, teachers, and others wishing general information representing common minerals, rocks, ores, fossils, field and laboratory methods, etc. One hour attendance. Three hours collateral readings. Two hours laboratory. One or two hours credit. First and second semesters.

Barbour, Webster

FOR SPECIAL STUDENTS

For students desiring special work as an aid to mining engineering, civil service appointment for work in geology, forestry, topography, Geology 13 may be combined with any one or more of the following courses:

A—**Elementary Mineralogy and Blowpipe Analysis**—One hour attendance. Two hours laboratory. One hour credit.

B—**Elementary Paleontology**—Study of index fossils for stratigraphic determination. One hour attendance. Two hours laboratory. One hour credit.

C—**Elementary Lithology**—One hour attendance. Two hours laboratory. One hour credit.

D—**Elementary Crystallography**—One hour attendance. Two hours laboratory. One hour credit.

E—**Elementary Field Work, Relief Maps, Etc.**—One hour credit.

Mining Geology

33. **Mining Geology**—A study of the nature of ore deposits; principles and methods of mining; methods of prospecting, locating, mapping, and valuing mining properties; mine timbering; the economics of mining;

laboratory study of common minerals, ore minerals, and associated rocks. Two hours attendance. Four hours laboratory and library. Two hours credit. First and second semesters. Schramm

40. **Mine Ventilation and Drainage**—Study of mine gases, origin, effect, and detection; methods of ventilation, control and measurement of air currents; types of mine fans, gas and dust explosions; mine fires; mine fatalities; kinds of mine rescue apparatus and use; with problems on mine ventilation. Sources of mine water and drainage methods. Two hours attendance. Four hours library and laboratory. Two hours credit. First and second semesters. Schramm, Ellis

41. **Structural Geology Applied to Mining**—Study of specimens illustrating types of texture and minute rock structure; kinds of cleavage, joints, dikes, and unconformities; with a detailed study of the folding and faulting of rocks with their relation to mineral veins and coal beds. Emphasis laid on solution of structural problems. Two hours attendance. Four hours library and laboratory. Two hours credit. First and second semesters. Schramm, Ellis

Engineering Geology

25. **Engineering Geology**—A study of rocks, rock-forming minerals, and materials for structural purposes. Two hours attendance. Four hours library, laboratory, and field. Two hours credit. First and second semesters. Barbour, Schramm

Economic Geology

34. **Economic Geology**—A study of the commercial ore minerals, their occurrence, distribution and economics, with special emphasis upon the ores of iron, copper, zinc, lead, gold and silver. Two hours attendance. Four hours laboratory and library. Two hours credit. Second semester. Schramm

35. **Economic Geology**—A study of the non-metallic minerals, coal, oil, gas, and other hydro-carbons, building stones, clay, cements, saline, and associated substances, fertilizers, abrasives, minor minerals, precious stones, and underground waters. Four hours laboratory and library. Two hours credit. First semester. Schramm

43. **Clays**—An elementary study of the origin, properties, classification, distribution, uses, and economics of clays. Two hours credit. First semester. Ellis

Introductory to the formal establishment of a two-year course in Mining, the following advisory courses are recommended for the consideration of students who expect to specialize in Mining Engineering and purpose entering special mining schools.

FIRST YEAR

FIRST SEMESTER

	Hours
Mathematics 1—(Trigonometry).....	5
Chemistry A—(General Chemistry).....	3
Chemistry 1—(Qualitative Analysis).....	2
Geology 1—(General Geology).....	3
Physics 1—(General Physics).....	3
Rhetoric 1—(Composition).....	2
Total.....	18

SECOND SEMESTER

	Hours
Mathematics 2—(Analytic Geometry and Calculus).....	5
Chemistry B—(General Chemistry).....	3
Chemistry 2—(Qualitative Analysis).....	2
Physics 2—(Heat and Sound).....	3
Geology 15—(Blowpipe Analysis of Minerals).....	3
Rhetoric 2—(Composition).....	2
Total.....	18

SECOND YEAR

FIRST SEMESTER

	Hours
Mathematics 3—(Analytical Geometry and Calculus).....	5
Surveying 5.....	2
Surveying (Field Work 5a).....	2
Chemistry (7—Quantative Analysis).....	2
Physics 3—(Electricity).....	2
Geology 33—(Mining Geology).....	2
Mechanical Drawing 1.....	3
Total.....	18

SECOND SEMESTER

	Hours
Mathematics 4—(Calculus).....	5
Physics 4—(Electricity and Light).....	3
Chemistry 8—(Quantative Analysis).....	2
Chemistry 22—(Assaying).....	2
Geology 34—(Economic Geology).....	2
Mine Surveying.....	3
Total.....	17

Mineralogy and Crystallography

15. **Mineralogy**—Blow-pipe analysis of minerals. One, two or three hours attendance. Two, four or six hours laboratory. One, two or three hours credit. First and second semesters. Schramm

16. **Mineralogy**—15 continued. First and second semesters.

17. **Crystallography**—Crystallographic forms and measurements, mathematical relations, physical and optical properties. One hour attendance. Two hours laboratory. One hour credit. First and second semesters. Barbour, Webster

Petrology

29. **Elementary Petrology**—For teachers and others who wish a general knowledge of rocks. One hour attendance. Three hours collateral readings and laboratory. One hour credit. First semester. Schramm

30. **Petrology**—A study of rocks and rock-forming minerals determined by means of physical, optical and chemical methods. Prerequisite: Courses 11, 13, and 17. Three to six hours laboratory. One to two hours credit. Second semester. Schramm

Field Geology

27. **Field Geology**—Study of structure and stratigraphy of type sections in carboniferous, cretaceous, and recent deposits in southeastern Nebraska. Mapping, photographing and sectioning quarries, clay and gravel pits; collecting and studying characteristic fossils. Economic study of brick plants, crushers, dredges, concrete establishments, and drainage canals. Finished report from field notes. One or two hours attendance. Two or four hours field and laboratory. One or two hours credit. First and second semesters. Schramm, Barbour

31. **Field Work**—Geologic and topographic mapping, with particular emphasis on methods employed by the United States Geological Survey, construction of relief maps from topographic maps made by the students. Finished report from field notes. One or two hours attendance. Three or six hours field and laboratory. One or two hours credit. First and second semesters. Schramm

37. **Elementary Field Class**—Field trips to various points of geologic interest and instruction. Field notes with sections and sketch maps; collecting and identifying specimens. Primarily for teachers and elementary students. First and second semesters. One hour credit. Hinterlong

Summer Courses in Mining and Field Geology

38. **Mining Excursion**—Six weeks will be spent in a detailed study of mines, mills, and ore deposits of the Black Hills and other Rocky Mountain regions. This course includes the general geology of the region; the construction of one topographic base map; stratigraphic and structural geologic maps. A study of the mica, gypsum, quartz, and cassiterite mines at Custer and Hill City, with a detailed study of the mines of the northern Black Hills with especial attention to the Homestake mine, and the coal mines at Cambria, Wyoming. The features of geologic interest listed in 39 will be studied incidentally to this work. Five hours credit.

Schramm, Barbour

39. **Geologic Excursion**—Summer geologic excursion to the Black Hills and Rocky Mountain region for the study of general geology and paleontology. Special attention will be given to the sand hills and bad lands of Nebraska, the thermal springs, wind cave, Crystal Cave, gypsum and other deposits, and quarries in the vicinity of Hot Springs, South Dakota; the granite needles at Harney Peak, Spearfish Canyon and Falls; intrusives of Sundance Mountain and Devil's Tower, the ore deposits, and mines of the northern Black Hills will be visited incidentally to this work. Time required, 6 weeks. Five hours credit.

Barbour, Schramm

Paleontology

9. **Zoological Geology**—An elementary study and comparison of living and fossil forms. One hour attendance. Two hours laboratory. One hour credit. First semester.

Barbour, Webster

10. **Zoological Geology**—9 continued. Second semester.

11. **Local Paleontology**—Fossils of the state. Designed primarily for teachers. Prerequisite: Course 9. One or two hours credit. First and second semesters. Barbour, Miss Barbour

12. **Local Paleontology**—Special problems. Designed primarily for graduate students. Credit conditioned on results. First and second semesters. Barbour

14. **Paleobotany**—An elementary study of fossil plants. One or two hours attendance. First and second semesters. Whitford
(Under direction of Bessey and Barbour).

GERMANIC LANGUAGES AND LITERATURES

Professor Fossler (*Head of Department*), Professor Grummann, Associate Professor Schrag, Assistant Professors Heppner, Baumgartner, Alexis, Chamberlain, Fellows

GENERAL INFORMATION

The organization of the department of Germanics (aside from the Scandinavian languages and literatures) provides for four more or less sharply defined lines of instruction, namely:

1. Elementary (courses 1-3).
2. Intermediate (courses 4-10).
3. Advanced undergraduate (courses 11-20).
4. Graduate (courses 21-27).

Students beginning their study of German in the University with course 1 should, ordinarily, not look towards making German their Major. To fulfil the requirements for a Major would, under those circumstances, require more time and strength than they could well spare from their college course.

Those contemplating specializing in Germanics are advised to do co-ordinate work in English or English literature, in Latin or History, particularly German history (cf. European History 7).

The requirements for the University Teachers' Certificate are as follows: Major: Courses 4, 5, 6 (or 5a), 7, 8, 19, 21 and at least nine semester hours in German literature above courses 5 and 6 (or 5a). Minor: the above mentioned courses with a minimum of three hours of more advanced literature.

A Major in the College of Arts and Sciences—not leading to the Teachers' Certificate—requires a minimum of 24 semester hours above courses 1, 2, and 3. To insure wise and careful selection of studies students should advise with the department before registering.

ELEMENTARY COURSES

1. **Beginners' German**—A careful and thorough study of the fundamentals of the language: pronunciation, the inflectional systems, sentence-structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings, e. g. Holzwarth's *Gruss aus Deutschland*, Müller and Wenckebach's *Glück auf*. Five hours. First and second semesters.

Grummann, Schrag, Heppner, Chamberlain, Baumgartner, Alexis, Fellows

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Walter and Krause's *First German Reader*, or Bacon's *Im Vaterland*, or Blüthgen's *Das Peterle von Nürnberg*, Allen's *Herein*, etc. Composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

2a. **Beginners' German**—Essentially equal to the foregoing course, although, being designed to accommodate high school students who enter with but two semesters' German, the formal or systematic side of grammar (review) is stressed particularly. Composition exercises as in course 2. Five hours. First semester.

Chamberlain, Heppner, Fellows

3. **Second Year German**—Modern prose, such as Niese's *Aus dänischer Zeit*, Schrakamp's *Ernstes und Heiteres*, Gerstäcker's *Germelshausen*, Rosegger's *Waldheimat*, Freitag's *Die Journalisten*, or Müller's *Neue Märchen* or Manley's *Ein Sommer in Deutschland*. Systematic elementary composition and conversation based upon Allen's *First German Composition* and upon texts read. Five hours. First semester. Given in Summer Session, 1914.

Schrag, Baumgartner, Chamberlain

INTERMEDIATE COURSES

PRIMARILY FOR UNDERGRADUATES

4. **Second Year German**—Translation and, as far as possible, discussion in German of more advanced text, e. g., Karl Schurz' *Lebenserinnerungen*, Arnold's *Aprilwetter*, Meyer-Förster's *Karl Heinrich*, Mogk's *Deutsche Sitten und Gebräuche*, Meyr's *Ludwig und Annemarie*, Fulda's *Das Verlorne Paradies*. Composition: Pope's *Writing and Speaking German*. Students who have had four semesters German in the high school should likewise register in this course. Five hours. First and second semesters.

Grummann, Heppner, Alexis, Chamberlain

5. **Third Year German**—Introductory literature, chiefly classical prose and verse, e. g., Lessing's *Minna von Barnhelm*, *Emilia Galotti*,

Schiller's *Maria Stuart*, *Jungfrau von Orleans*, Goethe's *Egmont*, *Iphigenie*, Hatfield's *Collection of German Lyrics and Ballads*, or Nollen's *German Poems, 1800-1850*. Three hours. First semester. Given in Summer Sessions.

Chamberlain, Heppner

6. **Third Year German**—Above course continued with texts already mentioned or with Heine's *Prosa*, Schiller's *Tell*, Goethe's *Hermann und Dorothea*. Three hours. Second semester.

Chamberlain, Heppner

5a. **Third Year German**—A combination of courses 5 and 6. The object of this course is to afford an opportunity to finish the third year's work to students who complete their fourth semester German mid-year. Five hours. Second semester.

Grummann, Alexis, Baumgartner, Chamberlain

5b. **Scientific German**—During the second semester, the department offers a 3 hour course in technical readings covering the principal sciences: botany, chemistry, biology, physics, using texts such as Palmer's *Grundzüge der Naturlehre*, Dippold's *Scientific German Reader* and various scientific monographs. The aim and purpose of the course is to prepare students adequately to use the German as a tool in their scientific work. Three hours. Second semester.

Fossler

7. **Third and Fourth Year German—Conversation Course**. The design in this and the following course is to furnish such opportunity for gaining as ready and correct a command of spoken German as can be done in the class room. Special attention is paid to colloquial, every-day idioms and expressions. Fossler's *Material for German Conversation*, Schrakamp's *Deutsche Heimat*, or Kühne and Vorwerk's *Deutsches Lesebuch*, and Hölzel's and Hirt's *Wandbilder*, and similar helps furnish the material discussed. Three hours. First semester.

Fossler, Schrag, Heppner

18. **Third and Fourth Year German**—Continuation of foregoing course. Free composition, close study of grammatical peculiarities. Committing of poems, proverbs, etc.

Fossler, Schrag, Heppner

9. **Third and Fourth Year German—Earlier Nineteenth Century Dramatists**. Selected dramas of Kleist, Grillparzer, Anzengruber, Ludwig, Hebbel. Introduction to their life, works and theory of art. Three hours. First semester.

Schrag

¹ Der Deutsche Gesellige Verein and The German Dramatic Club afford further opportunities for acquiring a practical knowledge of spoken German.

10. **Third and Fourth Year German**—Continuation of foregoing course. Three hours. Second semester. Schrag

ADVANCE COURSE FOR UNDERGRADUATES AND GRADUATES

11, 12. **Fourth Year—Advanced literature.** The entire year is devoted to a study of Goethe, to his life and works; (a) Pre-Weimar period; (b) Italy and post-Italian literary activity; (c) *Faust*, *Kleinere Gedichte*. Specially strong students are encouraged to supplement the work of the lecture room by preparing individual reports on various phases of the poet's life and art. Supplementary readings in Biedermann (*Deutschland im achtzehnten Jahrhundert*), Grimm, Bielschowsky, Meyer, Thomas, etc. Each course three hours. Fossler

13, 14. **Fourth Year—The Modern Novel and Drama.** Representative works of Hauptmann, Sudermann, Fontane, Kretzer, Halbe, Wildenbruch, Fulda and others. Lectures, reading, and reports. Each course three hours. Grummann

15, 16. **History of German Literature**—From the origins to the beginning of the Nineteenth Century. Besides reading representative portions of authors or periods under consideration students are required to familiarize themselves with works of reference such as Scherer's *History of German Literature*, Franke's *Social Forces in German Literature*, Kluge's *Deutsche National-Litteratur*. Lectures, readings and reports. Three hours throughout the year. Baumgartner

15a, 16a. **Lessing, His Life and Works**—The chief writing of the reformer of German literature are studied both in regard to their literary and critical aspects. Special attention is paid to the influence of English and French literature upon the beginning of German classicism. *Laokoon*, *Hamburgische Dramaturgie*, *Miss Sarah Sampson*, *Emilia Galotti* and *Nathan der Weise* are read and discussed in class. Supplementary readings, lectures and reports. Three hours. Second semester. Schrag

17. **Germanic Mythology**—A study of the more important Germanic myths, their origin and relation to folk-lore. Two hours. First semester. Grummann

18. **German Hero Lore**—A study of the origin and growth of the Volsunga Saga. A comparative study of Hebbel's *Die Nibelungen*, Wagner's *Der Ring des Nibelungen* and Ibsen's *Nordische Heerfahrt*. Two hours. Second semester. Grummann

19. The Teachers' Course—A survey of the principles and methods underlying the teaching of German. Lectures, assigned readings; papers and reports on topics connected with language teaching in secondary schools. Candidates for the Teachers' Certificate in German are required to teach the language for at least one full semester in the Teachers College High School, under the supervision of the department and a regular supervisory instructor. A careful examination of the aims and objects to be kept in view, as well as of grammars and other texts (such as readers, compositions, etc.) suitable for high school use. The course also includes a thorough review of the chief features of German grammar and the elements of phonetics. Reference books: Frazer and Van Der Smissen's *German Grammar*, Bagster-Collins' *German in Secondary Schools*, Bagster-Collins' *First Book in German*. Prerequisites: Courses 4, 5, 6 (or 5a), 7, 8 and advanced literature courses. In all cases students must consult with the instructor before registering for this course. Three hours. First semester. Fossler

20. Advanced Conversation and Composition Course—Continuation of 8 and 19. Werner-Spanhoofd's *Aus Vergangener Zeit*, Paskowski's *Lesebuch*, Kluge's *Themata zu deutschen Aufsätzen und Vorträgen* and material suggested in the latter work. Especially designed to supplement the work of those who intend to become teachers of German. Two hours. Second semester. Fossler

GRADUATE WORK—MASTER OF ARTS

In order to prosecute graduate studies successfully the student should have had preliminary training in German in at least 30 semester hours above courses 1, 2, and 3. These 30 hours must represent work covered in courses 5 to 20.

In general, a combination of philological and literary advanced work will prove most suitable to the needs and satisfactory progress of the student. Occasionally a greater degree of specialization either in linguistics or literature may be desired, and will be permitted, if the student has the necessary preliminary training.

The following courses and possible variations are suggested as suitable subjects for a Major:

FIRST SEMESTER

	Hours
1. Phonetics.....	1
2. Gothic.....	2
3. History of German Literature.....	3

4. Comparative Germanic Philology.....	3
or	
5. Modern Literature (Seminar).....	2

SECOND SEMESTER

1. Principles of Linguistic History.....	2
2. History of German Literature.....	3
3. Old and Middle High German.....	3
or	
4. Modern Literature.....	2
5. Thesis.....	2

Coordinate Minors may be chosen either from the more advanced undergraduate courses in the department of German or from other departments such as Latin, the Romance Languages, English and English Literature, Philosophy. In all such cases the work elected must be regarded by the department concerned as constituting graduate or advanced undergraduate work. The total Minors for both semesters should represent from 8 to 12 semester hours, and must be chosen with the consent of this department.

COURSES OF INSTRUCTION

21. **Phonetics**—The work is based mainly upon Sievers' *Phonetik*. One hour. First semester. Grummann

22. **Old and Middle High German**—Selections from the older literature. Prose and verse. Selections from the *Nibelungenlied* Wolfram von Eschenbach, Walther von der Volgelweide, Hartmann von Aue, etc. Transition stages between the Middle and the New High German. Three hours. Second semester. Grummann

23. **Comparative Germanic Philology**—The fundamental principles of linguistic science, with special reference to the prehistoric relationship, the historical development and differentiation of English and German. Three hours. First semester. Fossler

24. **Principles of Linguistic History**—The work is based principally upon Paul's *Prinzipien*, and Behaghel's *Die deutsche Sprache*. Two hours. Second semester. Grummann

25. **Gothic**—Grammar and readings. The language, with respect to its phonology, etymological connections and inflectional system; its relation to the other Germanic dialects. Two hours. First semester. Fossler

27. **Seminary in German Naturalism**—The influence of foreign literature and social forces upon German naturalism. Psychological criticism and its relation to earlier schools. Two hours. First semester.

Grumann

Scandinavian Languages and Literatures

Assistant Professor Alexis

1. **Beginning Swedish**—Elements of grammar with easy readings; sentence-structure; word-building; vocabulary. Geijerstam's *Mina pojkar*. Three hours. First semester.

Alexis

2. **Beginning Swedish**—1 continued. Mauritzon's *Rättskrivningslära*. Modern narrative prose. Selma Lagerlöf's *En herrgårdssägen*. Conversational exercises. Three hours. Second semester.

3. **Advanced Swedish**—Syntax and composition. Selma Lagerlöf's *Nils Holgerssons underbara resa genom Sverige*. Runeberg's *Fänrik Ståls sägner*, etc. Three hours. First semester.

Alexis

4. **Advanced Swedish**—3 continued. Lectures on early Scandinavian culture. The later Swedish literature. Tegner: *Frithiofs saga*. Three hours. Second semester.

5. **Dano-Norwegian**—Principles of grammar; pronunciation; reading of narrative prose. Björnson's *Synnöve Solbakken*. Two hours. First semester.

Alexis

6. **Ibsen: Brand, and Peer Gynt or some of the Social Dramas**—Class reading and interpretation. Two hours. Second semester.

7. **History of Swedish Literature**—Karl Warburg's *Svensk litteraturhistoria*. Schück's and Warburg's *Illustrerad litteraturhistoria*. John Mortenson's *Från Aftonbladet till Röda Rummet*. Three hours. First semester.

Alexis

8. **History of Norwegian and Danish Literature**—Jaeger's *Den norske Litteraturens historie*. Hansen's *Danske Litteraturens historie*. Three hours. Second semester.

Alexis

10. **Old Norse (Icelandic)**—Kahle: *Altisländisches Elementarbuch*. Mogk: *Gunnlangs saga orms tungu*. Two hours. Second semester.

Alexis

GREEK HISTORY AND LITERATURE

Professor Lees (*Head of Department*), Professor Dann

Candidates for the University Teachers' Certificate in this department should complete courses 1, 2, 3, 4, 7, 8, and 10 or their equivalent for a major and courses 1, 2, 3, 4 for a minor. One or two years of the Greek language will be found very helpful and even quite essential to a thorough mastery of the Latin language.

GRADUATE WORK

Master of Arts—Requirements vary somewhat according to the preceding work of the student, but at least three years of study in the Greek language, including courses 1, 2, 3, 4, 5, 8, or their equivalents, should be completed before proceeding to graduate work. Majors and minors are arranged with each graduate student on consultation with the instructors. The following statements may indicate in general the requirements for majors and minors:—Major: At least five hours for a year of class-room work; the entire Iliad or Odyssey read in the original; one Attic author carefully read and style mastered; a thorough knowledge of the history and development of Greek literature from Homer to Aristotle; a thesis. First Minor: Six hours, at least, of class-room work from courses open to graduate students, supplemented by assigned library readings. Second Minor: One-half the amount required for a first minor.

Greek Language

COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Greek**—Essential facts of the language; simple exercises and easy readings. Five hours attendance. Five hours credit. First semester. Lees

2. **Elementary Greek**—Course 1 continued. Xenophon's Story of Cyrus. Simple composition exercises. Five hours attendance. Five hours credit. Second semester. Lees

2b. **The Greek in English**—A study of English words derived from the Greek language. Aims to give such mastery of elementary Greek that the student is able to read Xenophon's Anabasis (Course 3) the following semester. Five hours attendance. Five hours credit. Second semester. Lees

3. **Xenophon's Anabasis**—Selections from Books I-IV. Parallel and supplementary readings from standard histories of Greece. Three hours attendance. Three hours credit. First semester. Lees

4. **The Odyssey**—Three books read consecutively; sight reading from selected passages of the first twelve books. Literary study of the whole poem from the English translation. Three hours attendance. Three hours credit. Second semester. Prerequisite: Courses 1, 2 or 2b, and 3. Lees

5. **Herodotus**—Selected chapters from the History of Herodotus. The Persian invasion of Greece. The battles of Thermopylae and Salamis. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester. Lees

6. **Plato**—The Apology and Crito. Socrates, his method, teachings, trial and death. Two hours attendance. Two hours credit. Second semester. Prerequisite: Courses 1, 2, 3 or 5. Lees

FOR UNDERGRADUATES AND GRADUATES

7. **The Greek Drama—Aeschylus**—The Prometheus Bound, and one other drama. A discussion of the works and literary characteristics of Aeschylus. Three hours attendance. Three hours credit. First semester. Lees

8. **Sophocles**—The Antigone, and one other drama. Greek actors, costumes, and theatre. Three hours attendance. Three hours credit. Second semester. Lees

9. **Euripides**—Two dramas read in the original. Style and literary characteristics of Euripides. Two hours attendance. Two hours credit. First semester. Lees

10. **Aristophanes**—The Clouds and Frogs. Rise and development of Athenian comedy. Its relation to Roman and later comedy. Two hours attendance. Two hours credit. Second semester. Lees

[11. **The Greek Historians**—Selected chapters from the works of Herodotus, Thucydides, and Xenophon. Two hours attendance. Two hours credit. First semester. *Given in 1915-1916.* Lees]

12. **The Greek Orators**—Selected orations of Lysias and Demosthenes. Two hours attendance. Two hours credit. First semester. Lees

13. **Epic Poetry**—Selected readings from the Iliad and the Odyssey. A general survey of the content of the Homeric Poems. Two hours attendance. Two hours credit. First semester. Lees

14. **Lyric Poetry**—Selections from the leading Lyric poets. Two hours attendance. Two hours credit. Second semester. Lees

15. **Greek Philosophy**—The *Phaedo* of Plato. A survey of Greek Philosophy. Two hours attendance. Two hours credit. Second semester. Lees

16. **Lucian**—Selected dialogues. An outline history of Greek Literature from Homer to the second century A. D. Two hours attendance. Two hours credit. Second semester. Lees

17. **Prose Composition** (Teachers' Course in Greek Language)—Advanced course. Especially for students expecting to teach. One hour attendance. One hour credit. First semester. Dann

18. **Prose Composition**—17 continued. Second semester.

19. **New Testament Greek**—Selection from the Gospels. Two hours attendance. Two hours credit. First semester. Instructor

20. **New Testament Greek**—19 continued. Pauline Epistles. Second semester.

Greek History and Archaeology

No knowledge of Greek is required in order to pursue the following courses. They are open to all students in any department of the University.

32. **Greek History**—General survey of Greek history from the sixth century B. C. to the conquests of Alexander. Three hours attendance. Three hours credit. First semester. Lees

33. **Greek Literature. The Greek Drama**—Selected Greek drama in English translation. Lectures and library readings on the authors studied. Two hours attendance. Two hours credit. First semester. Lees

34. **Greek Literature. The Greek Drama**—33 continued. Second semester. Course 33 is not a prerequisite. Lees

36. **Greek Archaeology and Antiquities**—Topography, architecture, theatres, temples, social customs, funeral monuments. An itinerary through Greece with lectures and illustrations from photographs and lantern slides. One hour attendance. One hour credit. Second semester. Lees

Sanskrit

The following courses in Sanskrit and comparative philology are open to advanced and graduate students. Although they are intended primarily for graduate students in either ancient or modern languages, yet they

may be profitably pursued by any advanced and aspiring student who desires to secure a broader basis for special study in his chosen linguistic field.

The aim of the work in Sanskrit is to give the student such a knowledge of basic grammatical forms and syntactical structure as to assist him greatly in the comprehension and mastery of similar phenomena in all our European languages.

1. **Beginners' Course**—Inflections and conjugations. Whitney's Sanskrit Grammar and interpretation of an easy text. Two hours attendance. Three hours credit. First semester. Lees

2. **Elementary Sanskrit**—Selected readings from the Nala and the Hitopadeca as given in Lanman's Sanskrit Reader. Two hours attendance. Three hours credit. Second semester. Lees

3. **Sanskrit**—Selections from the Hitopadeca and the Manava Dharmacastra. One hour attendance. Two hours credit. First semester. Lees

4. **Sanskrit**—Reading and interpretation of selected hymns of the Rig-Veda. One hour attendance. Two hours credit. Second semester. Lees

Comparative Philology

The courses in comparative philology do not require or presuppose a knowledge of Sanskrit.

5. **The Elements of Linguistic Science**—Comparative philology of the more familiar divisions of the Indo-European family of languages. Lectures and discussions. One hour attendance. One hour credit. First semester. Lees

6. **The Elements of Linguistic Science**—5 continued. Second semester.

HISTORY

(See American History, English History and European History)

HISTORY AND CRITICISM OF THE FINE ARTS

Professor Dann (*Head of Department*), Associate Professor Hayden

The following courses have to do with the principles of aesthetic criticism, and the evolution of art in its relation to nature, to science, and to social

influences. The course consists of lectures and discussions in class, collateral reading, and preparation of papers on assigned topics.

1. **Interpretation of Art**—This course is introductory to the general subject, and comprises a compendious survey of the chief periods in the history of art, together with practice in interpreting pictures, sculpture, architecture, and decorative designs. It is intended to help students to a sound criticism and appreciation of works of art. Examples are taken from various periods and schools. Open to all except freshmen. Two hours attendance. Two hours credit. First semester. Dann

2. **Interpretation of Art**—Course 1 continued. Second semester.

3. **History of Greek and Roman Art**—A study of classical architecture, sculpture, and the minor arts. Two hours attendance. Two hours credit. First semester. Dann

4. **Christian Art**—From the decline of Rome to the thirteenth century. Moorish architecture and decoration are also considered in this course. Two hours attendance. Two hours credit. Second semester. Dann

5. **History of Italian Art**—From Cimabue to Perugino. Open to Juniors and Seniors. Courses 1 and 2 are prerequisite. Three hours attendance. Three hours credit. First semester. Dann

6. **History of Italian Art**—From Raphael to Tintoretto. Prerequisite: Course 5. Three hours attendance. Three hours credit. Second semester. Dann

7. **Contemporary Painting and Sculpture**—A study of the aims, methods and technique of contemporary artists. Explanation of mediums and technical terms. Discussion of important art movements that have influenced the work of modern artists. Comparison of contemporary national schools. Open to Juniors and Seniors. Two hours attendance. Two hours credit. First semester. Hayden

[8. **Dutch and Flemish Painters**—Two hours attendance. Two hours credit. *Not given in 1914-1915.* Dann]

9. **Cathedral Architecture**—A study of the construction and decoration of Romanesque and Gothic churches in Italy, France, Germany, and England. Open to all except Freshmen. Two hours attendance. Two hours credit. First semester. Dann

10. **Modern Architecture**—The architecture of the Renaissance is taken up and discussed, including the points wherein it resembles or differs from classical architecture. The study and criticism of modern buildings

of architectural pretensions also receives some attention. Open to all except Freshmen. Two hours attendance. Two hours credit. Second semester. Dann

JURISPRUDENCE AND PUBLIC LAW

Professor Hastings (*Head of Department*), Professor Maxey

GRADUATE WORK

Master of Arts—Complete courses, or major or minor courses, are arranged upon application.

Master of Laws—A candidate for the degree of Master of Laws must have received the degree of Bachelor of Laws from this University or from some approved law school, must complete an additional year's work of at least 16 hours a week in the College of Law or the Graduate College or both, and must present a suitable thesis embodying the result of original investigation and research. Before such student shall be entitled to the degree he must complete all the courses, elective as well as required offered in the College of Law for the degree of Bachelor of Laws.

Jurisprudence

1. **History and System of the Common Law**—General survey of the legal system of English-speaking countries; courts, their organization and jurisdiction. Students taking this course should have had English History. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Hastings

[2. **Roman Law**—History and Institutes. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. *Given in 1915-1916 and alternate years.* Maxey]

3. **Analytical and Historical Jurisprudence**—Introduction to legal theory. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester. Maxey

Public Law and Diplomacy

1. **American Constitutional Law**—Cases on constitutional law. Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Students taking this course should have had American History. Hastings

2. **American Constitutional Law**—1 continued. Cases on constitutional law. Prerequisite: Course 1. Credited in the College of Law. Three hours attendance. Three hours credit. Second semester. Hastings

3. **American Administrative Law I**—Law of public officers; extraordinary legal remedies. Credited in the College of Law. Two hours attendance. Two hours credit. First semester. Maxey

4. **American Administrative Law II**—3 continued. Taxation. Credited in the College of Law. Two hours attendance. Two hours credit. Second semester. Maxey

6. **International Law I**—Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Maxey

7. **International Law II**—Advanced course. Specific problems of international law. Credited in the College of Law to students who do not count International Law I. Two hours attendance. Two hours credit. Second semester. Maxey

[8. **European Diplomacy**—Two hours attendance. Two hours credit. First semester. *Given in 1915-1916 and alternate years.* Maxey]

9. **Comparative Constitutional and Administrative Law**—Comparative study of public law of the United States, England, Canada, and Australia. Two hours attendance. Two hours credit. First semester. *Given in 1914-1915 and alternate years.* Maxey

10. **American Diplomacy**—Organization. Main diplomatic controversies. Two hours attendance. Two hours credit. First semester. Maxey

11. **Seminary on Consular Service**—Admission upon consent of the instructor. Two hours attendance. Two hours credit. Second semester. *Given in 1914-1915 and alternate years.* Maxey

MATHEMATICS

Professor Davis (*Head of Department*), Professor Candy, Professor Engberg, Professor Brenke, Assistant Professor Johnson, Miss Runge, Mrs. Grennan, Mr. Blumberg

GRADUATE WORK

The candidate for an advanced degree, whether mathematics be a major or a minor, must have completed mathematics 1, 2, 3, 4, and 7.

THE UNIVERSITY OF NEBRASKA

MASTER OF ARTS

Second Minor: Differential Equations, Advanced Analytic Geometry, courses 5, 6, 22, and 23.

First Minor: In addition to the above, courses 9, 9a, 20, and 21.

Major: The additional requirements are: (1) Selections, approved by the head of the department, from such courses in advanced mathematics, mathematical physics, astronomy or engineering as are offered during the student's residence; (2) a thesis.

DOCTOR OF PHILOSOPHY

The candidate must have not only an extended general knowledge of mathematics on the basis of the requirements for the degree of Master of Arts, but must also devote special attention to some line of modern research, consulting both standard treatises and the various mathematical journals. The results of this work are to be presented and discussed from time to time in the mathematical seminary and finally embodied in a thesis.

LIBRARY FACILITIES

The department has a carefully selected library to which additions are constantly made. Leading current periodicals are kept on file, and of these there are several complete sets.

Seminary: The instructors and advanced students meet the first and third Wednesday of each month, 4:30 to 6:00 p. m., for the discussion of current literature, the presentation of the results of investigations, and the solutions of assigned problems. Open to all students who have had one year of mathematics and who are recommended by their instructors.

Requirements for the University Teachers' Certificate—Major (25 hours), courses 1, 2, 3, 4, 8, 9, 9a; minor (12 hours), courses 1, 2, 8, and, if possible, 9 and 9a. It is very desirable that prospective teachers of Mathematics should add all or part of courses 5, 7, 20. They will thus get ideas that will vivify their teaching. It is also desirable that Physics should accompany Mathematics even if to do so the amount of Mathematics taken be diminished. Three points entrance credit in Algebra and three points in Geometry are necessary to enter course 1.

COURSES

A. **Solid Geometry**—Prerequisite: Five points high school credit. Four hours attendance. Four hours credit. First semester.

1a. **College Algebra**—Prerequisite: Five points high school credit. Three hours attendance. Three hours credit. First and second semesters.

1b. **Trigonometry**—Three hours attendance. Three hours credit. First and second semesters.

NOTE—Courses 1a and 1b are primarily for students in the College of Arts and Sciences.

1. **Algebra and Plain Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

2. **Analytical Geometry and Calculus**—Prerequisite: Course 1 or 1b. Five hours attendance. Five hours credit. First and second semesters.

3. **Analytical Geometry and Calculus**—2 continued. Five hours attendance. Five hours credit. First and second semesters.

4. **Calculus**—3 continued. Five hours attendance. Five hours credit. First and second semesters.

5. **Differential Equations**—Prerequisite: Course 4. Three hours attendance. Three hours credit. First semester. Candy

6. **Differential Equations**—5 continued. Second semester.

7. **Theory of Probability**—Three hours attendance. Three hours credit. Second semester. Engberg

8. **College Algebra**—Primarily for those intending to teach mathematics. Two hours attendance. Two hours credit. Second semester. Engberg

9. **History of Mathematics**—Two hours attendance. Two hours credit. Second semester. Candy

9a. **Mathematical Pedagogy**—The application of the principles of teaching Mathematics in actual class work in the Teachers College Training School. One hour credit. First and second semesters. Hill

10. **Advanced Algebra**—Three hours attendance. Three hours credit. First semester. Engberg

11. **Advanced Algebra**—10 continued. Second semester.

12. **Theory of Functions**—Three hours attendance. Three hours credit. First semester. Brenke

13. **Theory of Functions**—12 continued. Second semester.

14. **Elliptic Functions**—Three hours attendance. Three hours credit. First semester. Davis

15. **Elliptic Functions**—14 continued. Second semester.
16. **Harmonic Analysis**—Applied to the Partial Differential Equations of Mathematical Physics. Source of these equations. Methods of solution. Theory of Fourier's series. Other series of normal functions. Solution. Three hours attendance. Three hours credit. First semester. Brenke
17. **Harmonic Analysis**—16 continued. Second semester.
18. **Mathematical Logic**—Three hours attendance. Three hours credit. First semester. Davis
19. **Point Sets**—Three hours attendance. Three hours credit. Second semester. Davis
20. **Geometry of Position**—Three hours attendnace. Three hours credit. First semester. Johnson
21. **Geometry of Position**—20 continued. Second semester.
22. **Advanced Analytical Geometry**—Prerequisite: Course 5. Three hours attendance. Three hours credit. First semester. Candy
23. **Advanced Analytical Geometry**—22 continued. Second semester.
24. **Modern Geometry**—Two hours attendance. Two hours credit. First semester. Engberg
25. **Modern Geometry**—24 continued. Second semester.
26. **Imaginarities in Geometry**—Two hours attendance. Two hours credit. First semester. Davis
27. **Imaginarities in Geometry**—26 continued. Second semester.
28. **Differential Geometry**—Two hours attendance. Two hours credit. First semester. Davis
29. **Differential Geometry**—28 continued. Second semester.
30. **Vector Analysis**—Three hours attendance. Three hours credit. First semester. Davis
31. **Statistics**—Statistical problems. Interpretation of statistics. This course should be taken in connection with Political Economy 28. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. First semester. Engberg
32. **Insurance**—Mathematical principles of insurance, especially of life insurance. This course should be taken in connection with Political Economy 6. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. Second semester. Engberg

Biometry

The mathematical theory of evolution. A mathematical analysis of botanical and biological problems. An extended knowledge of mathematics is not necessary, although of great aid. The work is intended primarily for advanced students in the natural sciences who can apply this work to their researches, but it is open to other students.

35. **A Review of Preliminary Mathematics**—Followed by study of various frequency curves and applications to individual problems. Two hours attendance. Two hours credit. First semester. Engberg

36. **A Review of Preliminary Mathematics**—35 continued. Studies in error correlations of frequency constants, variation, organic correlation, regression, heredity, spurious correlation and fixture of type. Two hours attendance. Two hours credit. Second semester. Engberg

37. **Studies in Organic and Fraternal Correlation and Problems in Heredity**—One hour attendance. One to three hours credit. First semester. Engberg

38. **Studies in Organic and Fraternal Correlation and Problems in Heredity**—37 continued. Second semester.

MILITARY SCIENCE AND TACTICS

Major John Singleton Switzer, 4th Infantry, U. S. Army, Commandant
(*Head of Department*)

All male students in the College of Arts and Sciences, the College of Agriculture, the College of Engineering, and the long term students in the School of Agriculture are required forthwith after matriculation to take military drill. The requirements cover four semesters. This is not an elective course, but has been made a requirement by rule of the Board of Regents in conformity with the laws of the United States and of the State of Nebraska.

The work of the military department embraces practical and theoretical instruction in infantry drill, rifle practice and music for the band men.

Upon graduation students who have held cadet commissions receive from the Governor of Nebraska commissions in the State National Guard reserve list, subject to assignment to duty in the Guard.

Students who have had drill elsewhere should bring with them proper credentials in order that they may receive advance credit in the military department.

All students must provide themselves with the prescribed cadet uniform, which can be procured in Lincoln for about twelve dollars.

The Cadet Band is organized as a part of the Cadet Regiment. Men will be assigned to the band upon the approval of the Director of the Band and the Commandant of Cadets.

Military Drill

REQUIRED COURSES

1. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit.
2. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 1.
3. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 2.
4. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 3.

ELECTIVE COURSES

5. **Elective**—For men who have had one semester of drill. Theoretical. Two hours attendance for one-half semester. One hour credit.
6. **Elective**—Follows course 5. Theoretical. Two hours attendance for one-half semester. One hour credit.
7. **Elective**—Rifle company. By permission of the Commandant. Two hours attendance. One hour credit.
8. **Elective**—Rifle company. By permission of the Commandant. Two hours attendance. One hour credit.
9. **Advanced**—Prerequisites: Four semesters drill in the University or equivalent. Four hours attendance. Two hours credit.
10. **Advanced**—Prerequisite: Five semesters drill in the University or equivalent. Four hours attendance. Two hours credit.
11. **Advanced**—Prerequisites: Six semesters drill in the University or equivalent. Four hours attendance. Two hours credit.
12. **Advanced**—Prerequisites: Seven semesters drill in the University or equivalent. Four hours attendance. Two hours credit.

MUSIC

(See School of Fine Arts)

PHARMACOLOGY

(See "Physiology and Pharmacology")

PHILOSOPHY

Professor Wolfe (*Head of Department*), Professor Alexander, Professor Hinman, Assistant Professor Hyde, Mr. Cornell, Miss Drake

The primary aim of work in Philosophy is to serve as an organizing discipline in a general education, and to correct the narrowness often incident to specialization. It is an efficient means for the development of breadth, balance, culture, and maturity. It lies nearer today than ever before, probably, to the various sciences, social, historical, biological, and physical, on the one hand, and to the requirements of practical life on the other. Students seeking to make this use of Philosophy may begin with either course 1, course 3, or course 4 as early as the first semester of the sophomore year, and should carry a course each semester thereafter, the complete program including both Psychology and General Philosophy. Third and fourth year students may also begin their work in Philosophy with any one of the following courses: 21, 30, 51. After the first introductory semester, courses from all sub-groups within the department are equally open to the student.

Another very important aim of the department is to aid in the professional training of teachers. Those who wish to secure the University Teachers' Certificate must take courses 1 and 2 in Elementary Psychology.

GRADUATE WORK

The department as now organized has full professors representing each main division of the subject. It is well supplied with library and laboratory facilities, and is enabled to offer ample facilities for graduate work.

Major or minor courses for advanced degrees are arranged for in Psychology, in Ethics, in Logic and Metaphysics, and in History of Philosophy. No special statement of the number of hours required either for the degree of Master of Arts or that of Doctor of Philosophy need be made. Courses are outlined for each individual case in conformity with the general regulations laid down by the Graduate Faculty. Owing to the nature of philos-

ophy as a fundamental discipline in touch with all sciences, graduate students pursuing majors in other specialties will often find a minor in Philosophy of large value.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **Elementary Psychology**—A general introductory course, including the elements of descriptive, physiological, and experimental psychology. Designed for students who desire more than one semester in psychology. A good foundation is laid in two semesters for further studies in psychology, philosophy or education. Botany 1 or Zoology 1 should precede or accompany this course. Not open to first year students. Required for the Teachers' Certificate. Three hours attendance. Two hours laboratory. Three hours credit. First semester.

Wolfe

2. **Elementary Psychology**—1 continued. Second semester.

3. **Elementary Psychology**—A briefer course in general psychology for students wishing the minimum requirements in this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1914. Hyde

4. **Logic, Deductive and Inductive**—Practice in logical analysis, the use of syllogism and inductive methods, and detection of fallacies. Three hours attendance. Three hours credit. First and second semesters.

Hinman

I. Psychology

11. **Experimental Psychology**—Chiefly laboratory work. The student learns to manipulate all standard apparatus, and becomes somewhat familiar with present laboratory problems. Methods of investigation and of dealing with data are considered. In the second semester about half of the time is devoted to intensive investigation of some problem begun early in the year. Two hours credit. First semester.

Wolfe

12. **Experimental Psychology**—11 continued. Second semester.

13. **Genetic Psychology**—A comparative study of the animal mind. Readings and discussions on the methods of investigation, material accumulated, and conclusions reached. Beginning with the lowest animals, evidences of intelligence are sought in several representative groups. Effort is made to realize the resemblances and differences between the mind of the higher animals and that of man. Two hours attendance. Two hours credit. First semester.

Wolfe

14. **Genetic Psychology**—A study of the child mind in development. Essentially a course in the evolution of the individual. The class surveys the material of "child study" on infancy, childhood, and adolescence, reviews normal psychology, and studies old age. A few weeks are given to certain typical forms of abnormal mind, arrested development and genius. Two hours attendance. Two hours credit. Second semester. Wolfe

16. **Educational Psychology**—A practical study of the factors which influence the development of body and mind. May be applied on required hours in education. Two hours attendance. Two hours credit. Second semester. Given in Summer Session, 1914. Wolfe

18. **Suggestion**—A survey of the psychology and psycho-pathology of suggestion and allied phenomena. Entrance by permission of instructor. Two hours attendance. Two hours credit. Second semester. Alexander

II. Ethics

21. **Elementary Ethics**—A study of the fundamental principles of morals and their application to the everyday problems of modern life. Three hours attendance. Three hours credit. Second semester. Wolfe

23. **Ethical Theory**—The object of this course, running for two years, is the intensive study of dominant types of modern ethical systems. Each semester a section of the history of recent ethical debate is chosen for study, and the relevant classical works are analyzed. During 1915-1916 the development of intuitionism, utilitarianism, and idealism will be examined, involving familiarity with the writings of Martineau, Bentham, Mill, Sidgwick, Kant, Green, Bradley and Taylor. Two hours attendance. Two hours credit. First semester. Hinman

24. **Ethical Theory**—23 continued. Second semester.

25. **Ethical Theory**—During 1914-1915 the object of study will be the evolution of man's moral nature and conduct, and the evolutionary theory of ethics. The relation of this theory to utilitarianism and to idealism will be developed, and attention given to the writings of Darwin, Spencer, Stephen, Sutherland, Westermarck, Alexander, Wundt, and Hobhouse. Two hours attendance. Two hours credit. First semester. Hinman

26. **Ethical Theory**—25 continued. Second semester.

III. Metaphysics and Philosophy of Science

30. **Introduction to Philosophy**—Develops the philosophical conception of Reality as Mind, and applies it in some detail to the interpretation

of the system of the sciences. Deals with such ruling ideas as those of matter, force, life, heredity, evolution, purpose, mind, reason, God. Designed to meet the needs of the scientific and general student, and to serve also as a preparation for further work in philosophy. Lectures. Three hours attendance. Three hours credit. First and second semesters. Hinman

30a. **Philosophical Themes**—Students who have taken or are taking course 30 may mature themselves in this subject and secure additional credit by preparing papers in connection with assigned topics, and carrying out the library work which these involve. No further class attendance. One to three hours credit. Hinman

33. **Advanced Metaphysics**—A systematic study of the philosophical basis of contemporary physics with special reference to the significance of mechanical explanation. The critical discussions of such men as Rankine, Mach, Pearson, and Poincare will be examined. The studies of the course are based upon Rey's *La theorie de la physique chez les physiciens contemporains*. Two hours attendance. Two hours credit. First semester. Hinman

34. **Advanced Metaphysics**—33 continued. Second semester.

37. **Logic of Science**—Deals with the nature of conception, judgment, and inference, with reference both to general philosophical results and to the methodology of science. Bosanquet's larger *Logic* is the basis of the course. Two hours attendance. Two hours credit. First semester. Hinman

38. **Logic of Science**—37 continued. Second semester.

IV. Aesthetics

41. **Philosophy of Criticism**—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester. Alexander

42. **Philosophy of Criticism**—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus' *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester. Alexander

43. **History of Culture**—Historical Phases of the conception of culture: the rise of culture in the Mediterranean basin, with especial study of the

Graeco-Roman ideal of enlightened living, Plato's Republic. Three hours attendance. Three hours credit. Alexander

44. **History of Culture**—The culture of mediaeval times and of the Italian Renaissance; the 18th century Enlightenment and humanitarianism; humanism today. Three hours attendance. Three hours credit. Second semester. Alexander

V. History of Philosophy

51. **History of Philosophy**—Survey of the principal philosophical systems in their development and relation to the political and social conditions of their times. Three hours attendance. Three hours credit. First semester. Alexander

52. **History of Philosophy**—51 continued. Second semester.

53. **Greek and Mediaeval Philosophy**—Special studies in the history of philosophy for advanced students. One session weekly. Two hours credit. First semester. Alexander

54. **Greek and Mediaeval Philosophy**—53 continued. Second semester.

55. **Modern German Philosophy**—Rudolph Eucken. Reading of the text in German will be required. Two hours attendance. Two hours credit. First semester. Hyde

56. **Modern German Philosophy**—55 continued. Second semester.

57. **German Idealism**—Kant and Hegel. First semester devoted to the Critical philosophy. Brief study of background of Criticism in English Empiricism; careful study of teachings of Kant's three Critiques. Two hours attendance. Two hours credit. First semester. Hinman

58. **German Idealism**—57 continued. Development of Kantian doctrine in its idealistic phases by his successors briefly traced; culmination of post-Kantian Idealism, studied at length in Hegel's *Smaller Logic*. Second semester. Hinman

57a. **English Empiricism in the Nineteenth Century**—Mill and Spencer. After a brief study of Hume, the development of Empiricism will be traced in the Associational school, and its culminating phases in the philosophical views of John Stuart Mill will be analyzed in detail. Two hours attendance. Two hours credit. First semester. Hinman

58a. **English Empiricism in the Nineteenth Century**—57a continued. Spencer's *Synthetic Philosophy*. Second semester.

VI. History and Philosophy of Religion

60. **Philosophy of Religion**—Nature and meaning of religion and grounds of religious beliefs in view of the rational interpretation of the universe made by modern science and philosophy. Origin and evolution of religion, the psychology of religion, arguments for the existence of God, modern conceptions of God and Immortality. One hour attendance. One hour credit. Second semester. Hinman

61. **History of Religion**—After a short examination of the origin of religion and its form among primitive peoples its history is traced at some length among the Aryans, and more briefly among Chinese, Japanese, Egyptians, Babylonians, and Semitic races. The greater religions are analyzed in order to explain and evaluate the philosophical views which they involve. Three hours attendance. Three hours credit. First semester. Hinman

62. **History of Religion Among the Hebrews** (briefer course)—Essentially a library course on the development of Israel's religious ideals, as reflected in the Old and New Testaments, and interpreted in the spirit and by the methods of the higher criticism. Open only to students who have had course 30 or course 61, or other work of equal value for training to critical and constructive thinking in this field. Lectures, conferences, and readings. Three hours credit. Second semester. Hinman

63. **Philosophy and Psychology of Religion**—Advanced course. An extensive survey of recent literature primarily in the philosophy of religion and in the psychology of religion so far as this has an immediate bearing upon philosophical issues. Two hours attendance. Two hours credit. First semester. Hinman

64. **Philosophy and Psychology of Religion**—63 continued. Second semester.

PRIMARILY FOR GRADUATES

71. **Psychological Seminary**—The year will be given to the study of some problem, or group of closely allied problems, to be definitely determined by the interests of the members of the seminary. Seniors who have had 1 and 2, and who are taking 11 or 12 may elect this course. During the year 1914-1915 the Psychology of Interest, may be considered. Two hours attendance. Two hours credit. First semester. Wolfe

72. **Psychological Seminary**—71 continued. Second semester.

73. **Ethical Seminary**—Study of special problems in ethics. Two hours attendance. Two hours credit. First semester. Hinman

74. **Ethical Seminary**—73 continued. Second semester.

75. **Seminary in Logic and Metaphysics**—Two hours attendance. Two hours credit. First semester. Hinman

76. **Seminary in Logic and Metaphysics**—75 continued. Second semester.

PHYSICAL EDUCATION

Professor Clapp (*Head of Department*), Assistant Professor Gittings,
Assistant Professor Park, Instructors Beghtol and _____

GENERAL INFORMATION

The practice courses in physical education are open, as electives, to men. No student may take work in the department without regular registration.

Members of all classes in physical education and of all University athletic teams are required to take a physical examination at the beginning of the college year or at the beginning of the semester in which that training begins.

Unless excused, all women are required to take physical training four days per week for the first two years.

The general health of all women is carefully looked after by the director of the women's gymnasium and the examining physician for women. Special medical gymnastics is arranged for those whose health does not permit them to take the general class work.

Men are required to wear gray Turner trousers, navy blue sleeveless jerseys and heelless shoes. Women are required to wear uniform gymnasium suits, which should, *under no conditions*, be ordered before consulting the instructor.

TEACHERS' CERTIFICATE IN PHYSICAL EDUCATION

The University Certificate in Physical Education is granted to graduates of the University who have satisfied all the special requirements given below and whose work in general, special and professional subjects has been of a high order. Graduates of other universities and of colleges of high rank may receive this certificate upon the same terms as graduates of this institution. Students not graduates of this University or of institutions of equal rank, who complete this course, receive statements to that effect and also credit toward a degree for their work. Requirements:

Rhetoric 1 and 2; Chemistry 1 and 2; Zoology 3a, 4a and 7; Anatomy 15 and 16; Physiology 1 and 2; Philosophy 1 and 2; Physical Education (theory) 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 17, 18, 20, 39, 40, 41 and 42 for both men and women (except 5, which is not required of women); Physical Education (practice) 13, 14, 15, 16, 31, and 32 for men, 21, 22, 23, 24, 33, and 34 for women. Ability to use the common strokes in swimming is also required. The professional work for the certificate should be taken with other undergraduate studies.

Physical Education—Theory

[2. **Physical Diagnosis**—Theory and practice of normal and abnormal physical signs of the thoracic organs. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Clapp]

3. **Anthropometry**—History. Measurements, their statistical and diagnostic value. Practice in taking and recording measurements and in making charts. Laws of human proportion. Average, mean, and ideal types. Analysis and critical inspection of measurements and personal histories for determining fitness for gymnastic work. Two hours attendance. Two hours credit. First semester. Park

4. **Applied Anatomy**—Muscles and their relation to common gymnastic and athletic movements. Presupposes a knowledge of anatomy. Two hours attendance. Two hours credit. Second semester. Park

[5. **General Athletic Training**—Theory of training for all branches of athletics. Ancient and modern methods compared. Diet, sleep, bathing and rubbing. One hour attendance. One hour credit. First semester. *Not given in 1914-1915.* Clapp]

7. **Kinesiology**—Aims, varieties and effects of gymnastic movements. Swedish and German methods. Gymnastic terminology. Hygienic, educative and recreative. Two hours attendance. Two hours credit. First semester. Park

8. **Physiology of Bodily Exercise**—Physiological features of training, breathlessness, fatigue and stiffness. Testing respiratory movements and circulation before and after exercises. Two hours attendance. Two hours credit. Second semester. Clapp

9. **Emergencies**—First aid treatment in case of accidents, such as fractures, dislocations, wounds, hemorrhages, poisoning and drowning. Bandaging, nursing, and general care of the sick. Recitations and demonstration. One hour attendance. One hour credit. Park

10. **Medical Gymnastics and Prescription of Exercise**—Corrective gymnastics as applied to abnormal conditions. Special lectures to women on pelvic anatomy. Massage. Theory and practice. Two hours attendance. Two hours credit. Second semester. Park

[11. **History and Literature of Physical Education**—Ancient and modern literature covered by assigned readings, digests, reports, discussions and lectures. One hour attendance. One hour credit. First semester.]

[12. **Methods and Equipment of a Department**—Gymnasium and athletic field; construction, equipment, organization, rules and management. One hour attendance. One hour credit. Second semester. *Not given in 1914-1915.* Clapp]

[17. **Methods in Teaching**—(Consult before registering). Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Gittings]

[18. **Methods in Teaching**—17 continued. Second semester. *Not given in 1914-1915.*]

20. **Track Athletics**—The technique of standard track and field events and systematic preparation for indoor and outdoor contests. Practice—Proper form in events mentioned above; and general physical work for training purposes. Two hours theory. Four hours practice and outside readings. Two hours credit. Second semester. Clapp, Reed

[39. **Playgrounds**—Philosophy of play. Aims and purposes of the play ground. Organization, construction, equipment, administration and management. Playground activities; games, festivals, and social work. Lectures, readings, reports and practice. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Gittings]

[40. **Playgrounds**—39 continued. Second semester. *Not given in 1914-1915.*]

Hygiene and Physical Education

41. **Personal Hygiene**—Chemistry of Digestion; Foods, their sources, digestibility and value; standard diet tables; stimulants and narcotics; respiration and circulation; bathing and clothing; care of the eye; exercise and its effect on the system; sleep and recreation; special hygiene and eugenics.

Physical Training—The equivalent of Physical Education 21 or Physical Education 23 for young women. Practice work for men in Physical Education 13 and 15. Five hours attendance. Two hours lecture. Three

three-fourths hour periods in physical training, and outside readings. Three hours credit. (Regular floor classes in Physical Education 21, 23, or 25 may be substituted for above floor section. One hour of credit in above course will apply towards the four hours required of all young women, in Physical Education, or all young men excused from Military Drill and required to substitute Physical Education in lieu of same.)

Clapp, Park, Beghtol

42. **Hygiene**—41 continued. Public hygiene and sanitation; infections and contagions; diseases, their transmission and prophylaxis; heating; lighting; ventilation; drainage; plumbing; immediate and final sewage disposal. Physical Training—The equivalent of 22, 24, or 26 for young women. Practice work for men in 14 and 16. Clapp, Park, Beghtol

Physical Education—Practice

MEN—FIRST YEAR

13. **Gymnastics**—(a) Light Gymnastics, free-hand body building, dumb-bells and wands.

(b) Heavy Gymnastics—Elementary apparatus work and parallel bars, side and long horse, buck, vaulting and horizontal bars and tumbling.

(c) Recreative Gymnastics—Games and contests. Three hours attendance. One hour credit. First semester.

14. **Gymnastics**—13 continued. (a) Light Gymnastics—Continuation of previous semester's work, Indian clubs and elementary gymnastic dancing.

(b) Heavy Gymnastics—Continuation of previous semester's work.

(c) Recreative Gymnastics—Continuation of previous semester's work. Boxing and wrestling. Second semester.

Students who have registered and received credit for courses 13 or 14 will not hereafter be allowed to re-register for the same course.

MEN—SECOND YEAR

15. **Gymnastics**—Advanced light and heavy gymnastics. Games and contests. Wrestling and fencing. Courses open to men who have completed Physical Education Courses 13 and 14 or their equivalent. Three hours attendance. One hour credit. First semester.

16. **Gymnastics**—15 continued. Second semester.

31. **Leaders' Class**—Members must be proficient in all forms of gymnastics. Consult instructor before registering. One hour credit. First semester. Clapp, _____

32. **Leaders' Class**—31 continued. Second semester.

WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half-hours attendance. One hour credit. First semester. Beghtol

22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four half-hours attendance. One hour credit. Second semester.

WOMEN—SECOND YEAR

23. **Light Gymnastics**—Military marching. German gymnastics, dumb-bells, wands, and Indian clubs. Elementary exercises on horse, parallel bars, flying rings and buck. Athletic and gymnastic games. Folk and artistic dancing. Four half-hours attendance. One hour credit. First semester.

24. **Light Gymnastics**—23 continued. Basket-ball, indoor baseball, field hockey and tennis. Four half-hours attendance. One hour credit.

25. **Normal Course**—This brief course of Normal Training in Physical Education is planned primarily for students of the Teachers College who wish to teach elementary gymnastics or playground work in connection with other high or grade school work. Announcement will be made later regarding a supplementary course to be offered in 1914-1915. Practice in Swedish and German gymnastics; apparatus and folk dancing; instruction in indoor and outdoor gymnastics; games and athletics; the general theory of gymnastics and the physiological reasons for different types of exercises will be discussed, and opportunity offered for practice in teaching gymnastics. Work in this normal course will be accepted as the equivalent of the usual courses 21, 22, 23 and 24, required of all young women, and credit will apply towards the four hours required of all young women for graduation. Attendance three three-fourths hours per week. One hour credit. Park

26. **Normal Course**—25 continued. Second semester.

29. **Advanced Heavy Gymnastics**—Open only to those who have attained proficiency in heavy gymnastics. Three hours attendance. One hour credit. First semester. Clapp, _____

30. **Advanced Heavy Gymnastics**—29 continued. Second semester.

33. **Light and Heavy Gymnastics** (For Normal Training students only)—Advanced Swedish gymnastics on stall bars, boom, parallel bars, ropes, poles, etc. Swedish song-games, folk and aesthetic dancing. Indoor baseball, tennis, basket-ball and swimming. Six hours attendance. Two hours credit. Park, _____

34. **Light and Heavy Gymnastics** (For Normal Training students only)—33 continued. Advanced work with dumb-bells, wands and Indian clubs. Advanced apparatus work on horse, parallel bars, flying and traveling rings, spring board, buck, etc. Fencing. Six hours attendance. Two hours credit.

PHYSICS

Professor Skinner (*Head of Department*), Professor Moore, Professor Almy, Associate Professor Tuckerman, Mr. Tool, Mr. McComb, Mr. Spencer

Two distinct series of courses are offered in physics to undergraduates. They differ in the requirements for admission and in the thoroughness of the work.

The first series (1, 2, 3, 4) is prescribed for engineering students. It culminates in 5 and 6 for electrical engineering, with, in addition, 17 and 18 for those taking a major in physics in the College of Arts and Sciences. It is open to students who have two points entrance credit in physics, or sixty university hours.

The second series (11, 12, 13, 14) is designed for those desiring to study physics from a more purely philosophical—less mathematical—standpoint, and in its relation to other sciences and to natural phenomena. It is open to the students of any college who have *completed* their college entrance requirements.

For the University Teachers' Certificate, courses 1, 2, 3, 4 (three hours each), 15 and 16; or 11, 12, 13, 14, 15, and 16 are required for a major in physics. For a minor 15 and 16 may be dropped from the requirement for a major.

GRADUATE WORK

For graduate students instruction is given in both theoretical and experimental physics. Lectures are given in the general theoretical branches and are offered on special topics in which the lecturer is immediately interested.

In theoretical physics courses 21, 22, 23, 24 are given in a sequence of four semesters with four hours lecture weekly, while the others are given as the occasion demands.

For the degree of Master of Arts the candidate may offer simply a major in physics, but is advised to offer also a minor in mathematics. In addition to a completed investigation a fair knowledge of theoretical physics is expected. For attaining this degree two years graduate work is usually necessary.

For the degree of Doctor of Philosophy the same progress beyond the Master's as that represents over the baccalaureate is required. In addition to the work in physics and mathematics the candidate must offer also a minor in either chemistry, astronomy or philosophy.

General Physics

COURSES PRIMARILY FOR UNDERGRADUATES

1. **General Physics**—Mechanics of solids and fluids. Two hours lecture with illustrative experiments and one recitation. Three hours laboratory. Three hours credit. First semester. Almy, McComb, Spencer

2. **General Physics**—Heat and sound. As in 1. Second semester.

3. **General Physics**—Electricity. This course extends into the second semester. Two hours lecture with illustrative experiments. Three hours laboratory. Two or three hours credit. First semester.

Almy, Moore, Spencer

4. **General Physics**—Electricity and light. Prerequisite: Course 3. As in 3. Second semester.

5. **Problems in Electricity**—(Taken with course 4, but not preceding it.) Two hours attendance. Two hours credit. Second semester.

Tuckerman

6. **Electrical Measurements**—(Prerequisite: Courses 3 and 5.) Eight hours laboratory. Three hours credit. First semester.

Tuckerman

11. **Arts Course in General Physics**—Mechanics and heat. For the nature of this course and conditions for admission see above. Three hours lecture with illustrative experiments and one recitation. Three hours laboratory. Three hours credit. First semester. Skinner, Tool, Spencer

12. **Arts Course in General Physics**—Electricity, acoustics, and light. Prerequisite: Course 11. A continuation of 11. Three hours credit. Second semester.

13. **Advanced Physics for Arts Students**—This is designed to follow courses 11 and 12. Three hours lecture. Three hours laboratory. Three hours credit. First semester. Skinner, Tool

14. **Advanced Physics for Arts Students**—A continuation of 13. Three hours credit. Second semester.

15. **Teachers' Special Methods in Physics**—Discussion of methods and procedure in teaching high school physics. Guiding principles in the selection and adaptation of subject-matter and laboratory exercises. Choice of apparatus and supplies. Equipment and efficient administration of the laboratory. Difficulties of physics teaching in high schools generally. Such understanding and organization in the teaching procedure as may reasonably assure successful teaching service from the outset. Prerequisite: Courses 11, 12, 13, 14. Two hours attendance. Three hours laboratory. Two hours credit. Second semester. Given in Summer Session, 1914. Brownell

15b. **Teachers' General Course in Physics**—The selection and working of experiments to constitute a year's course in high schools—qualitative and quantitative for both laboratory and lecture table. Organization of the subject-matter to be taught in connection with such experiments. Parts of the subject presenting special teaching difficulties in high school work given careful exposition. The laboratory work a series of exercises fundamental in the teaching process. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Given in Summer Session, 1914. Brownell

16. **Teachers' Laboratory Course in Physics**—A semester of teaching of classes in high school physics under closest critical supervision. Involves (a) class management, preparation for class instruction, making of lesson plans, review of examination papers, provision for desk experiments; (b) direction of the laboratory work of sections of high school physics classes, with care of the laboratory and its supplies, preparation in advance for the experimental work, assistance to pupils at the tables, and review of laboratory papers handed in. To follow or in connection with Physics 15. Two hours conference. Five hours laboratory, or five hours teaching. One or two hours credit. First and second semesters. Brownell

17. **Exact Physical Measurements**—In heat, the determination of freezing and boiling points; in electro-chemistry, the study of electrolysis, conductivities, electromotive forces and electrolytic polarization; in optics, the use of the spectroscope, diffraction grating, interferometer, polariscope and accessories. Open to students who are taking special work in physics,

chemistry, or astronomy—the experiments being selected to fit the demands of their specialty. One hour reading. Six hours laboratory. Three hours credit. First semester. Moore

18. **Exact Physical Measurements**—As in 17. Second semester.

FOR UNDERGRADUATES AND GRADUATES

19. **Advanced Experimental Physics**—Exact determination of physical constants, requiring a careful duplication of some classic experiments in physics, in which a single experiment is expected to cover a period of about one semester, or an introduction to research. Fifteen hours laboratory. Five hours credit. First semester. Skinner, Moore, Almy

20. **Advanced Experimental Physics**—As in 19. Second semester.

PRIMARILY FOR GRADUATES

Research—Original investigation of some problem in physics. No time limit imposed. Less than fifteen hours a week is not advisable.

Skinner, Moore

Theoretical Physics

PRIMARILY FOR GRADUATES

21. **Dynamics of Discrete Particles**—Formal development of the general principles of mechanics: D'Alembert's Principle; Gauss' Principle of Least Constraint; Hamilton's Principle of Least Action; La Grange's Equations; Hamilton's Canonical Equations; applications to special problems. Four hours lecture. Four hours credit. First semester.

Tuckerman

22. **Elasticity and Hydrodynamics**—*Elasticity*: Deformations of homogeneous media, isotropic and crystalline; vibrations of isotropic media; applications to special problems. *Hydrodynamics*; irrotational and vortex motions; scalar and vector potentials; application to mechanical theories of electromagnetic phenomena. 21 continued. Second semester.

Tuckerman

23. **Electricity and Magnetism**—The fundamental equations of Maxwell, applied to the theory of Static, Stationary, Quasistationary, and Kinetic Electromagnetic fields. A short outline of Vector Analysis and Quaternions (Hamiltonian and Continental Notations) is given as an introduction. Four hours attendance. Four hours credit. First semester.

Tuckerman

24. **Electro-Optics**—Electromagnetic oscillations and their application to the theory of light. 23 continued. Second semester. Tuckerman
25. **Thermodynamics**—Development of the principles of thermodynamics from the two "fundamental laws." Two hours credit. One semester. Skinner
26. **Heat Radiation**—Thermodynamic theory of radiation. Two hours lecture. Two hours credit. One semester. Skinner
27. **Theory of Sound**—Theory of small oscillation of strings, bars, and air columns; propagation of sound. Three hours credit. One semester. Almy
28. **Optics**—Theory of ray systems; application to optical instruments. Three hours credit. One semester. Skinner
29. **Thermo- and Electro-Chemistry**—Three hours credit. One semester. Moore
- 30-31. **Theory of Changes of Physical State and Chemical Constitution of Bodies**—Two hours credit. First and second semesters. Moore
32. **Electric Conduction in Gases**—Faraday's law; ionic velocities; cathode rays; radioactivity; electron theory. Two hours credit. One semester. Skinner
- Physical Colloquium**—Instructors and graduate students meet weekly for presentation of short papers on the progress of their investigations and those reported in current periodicals.

PHYSIOLOGY AND PHARMACOLOGY

Professor Lyman (*Head of Department*), Mr. Thompson, Doctor Stevens

Graduate work in physiology and pharmacology is open to those students who have completed courses 1 and 2 or 3 as described below and who have had sufficient training in related branches and in the languages. Work leading to the degrees of Master of Arts and Doctor of Philosophy must be research of such a type as to merit publication in the standard journals. The time necessary in each case is that required by the Graduate College. Candidates will consult with the head of the department before registering.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, diges-

tion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses, and reproduction. A combined lecture, demonstration, and laboratory course. Three hours attendance. Four hours laboratory. Three hours credit. First semester.
Lyman, Thompson

2. **General Animal Physiology**—1 continued. Three hours attendance. Four hours laboratory. Three hours credit. Second semester.

3. **Advanced Human Physiology**—The physiology of the central and the peripheral nervous systems, and the organs of special sense. Three hours attendance. Four hours laboratory. Three hours credit. First semester.
Lyman

4. **The Physiology of Reproduction**—This course is intended primarily for teachers and social workers but is open to all students. The most important problems considered are the following. The anatomy, physiology and hygiene of the sexual organs. What should be taught children at different ages and how the subject should be presented. The responsibility of the teacher to the child and to the home. The physiological and sociological importance of venereal diseases, methods of infection and prevention and their relation to alcoholism. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.
Lyman

6. **General Pharmacology**—A course designed for teachers and students of biology who wish a general knowledge of the physiological action of drugs. The greater part of the time is devoted to the experimental study of the physiological and pathological changes induced by the narcotics and habit producing drugs. The course closes with a discussion of patent medicines and fakes in general. No prerequisites. Two hours attendance. Three hours laboratory. Two hours credit. Second semester.
Lyman, Day

10. **Materia Medica**—A didactic and laboratory study of the origin, natural history, preparations, and methods of using individual drugs. For students of dentistry. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.
Stevens, Lyman

POLITICAL ECONOMY AND COMMERCE

Professor Le Rossignol (*Head of Department*), Professor Virtue, Assistant Professor Stephens, Assistant Professor Martin, Dr. England

UNDERGRADUATE WORK

Order of Studies—Students who can take but one course in Political Economy are advised to take course 1. Those who expect to take several courses may begin with course 1, which is prerequisite to all but courses 3, 4, 5, 9, 10, 11, 12, and 13; or they may begin with some of these more descriptive courses, which give a good preparation for course 1.

Major and Minor Requirements—Students taking a major (24 hours) in Political Economy are required to take courses 1, 2, 9, 10, 15 and 16, and are advised to take also courses 19, 24, 25, 26, 31, and 35. Students taking a minor (15 hours) in Political Economy are required to take courses 1 and 2.

SCHOOL OF COMMERCE

The Regents have authorized the creation of the School of Commerce for the purpose of giving professional training to students preparing for a business career, for employment in certain branches of the public service and for the work of teaching Political Economy and Commerce in high schools and colleges. Special courses are provided in Accounting, Business Administration and Business Law. Copies of the Bulletin of the School of Commerce may be had on application to the Registrar.

Vocational Training—Many of the courses in Political Economy are of special value to students preparing for agriculture, engineering, law, journalism, the public service, insurance, banking, or other lines of business activity, and students should plan their courses in consultation with the instructors of the Department with such ends in view.

GRADUATE WORK

Candidates for the degree of Master of Arts are required to complete at least one year's work and to present a satisfactory thesis, showing ability to carry on independent investigation and to assemble the results. A candidate may give all of his time to economic studies or he may offer a major (18 hours) in one department and a minor (12 hours) in another.

Candidates for the degree of Doctor of Philosophy are required to complete at least the equivalent of three years work after taking the Bachelor's

degree, or two years work after the Master's degree, but the degree will not be granted unless the candidate attains a satisfactory standard of scholarship, irrespective of time of residence or study. In addition to his major course, which should represent about three-fifths of the total work, the candidate may offer either one minor or two. Candidates taking a major in Political Economy are usually advised to take minors in History, Political Science, Philosophy, Geography or other subjects more or less closely related to the major. In every case a thesis is required, embodying the results of an original investigation.

The University offers excellent opportunities for graduate study and research. Several important libraries are accessible to students, and there is no lack of promising fields of investigation, particularly along lines of public and private finance, economic history of Nebraska and the West in general, agricultural conditions, commercial relations and problems of capital and labor. The Department offers a number of special courses, and these may be supplemented by allied courses in other departments.

COURSES PRIMARILY FOR UNDERGRADUATES

1. Principles of Political Economy—Elementary course. Preliminary view of the subject. Intended as a preparation for the more special courses offered in the Department. The industrial organization of society; development of natural resources; occupations and the division of labor; production, exchange and distribution of wealth; utility and value; wages, interest, rent and profits; money and credit; rise and fall of prices and the cost of living; transportation; domestic and foreign commerce; protection and free trade; trusts and trade unions; state and municipal ownership; socialism. (This course is prerequisite to all of the following except courses 3, 4, 5, 9, 10, 11, 12 and 13.) Three hours attendance. Three hours credit. First and second semesters. Four sections in the first semester and two in the second. Given in Summer Session, 1914.

LeRossignol, Virtue, Stephens, England

2. Money and Banking—Origin of money; early forms of currency; metallic money; credit money; monetary history of the United States; bimetallism; the gold standard; relation of money and credit to the general level of prices; nature and use of credit; domestic and foreign exchange; history and theory of banking; banking systems of Great Britain, Germany, France and Canada; national, state and private banks; proposals for banking reform. Three hours attendance. Three hours credit. First and second semesters.

LeRossignol, England

2a. **Practical Banking**—A course in banking practice, treating of the actual operations of the various departments of a bank. Special attention is given to classification of loans, collateral, investments, domestic and foreign exchange, bank accounts and the relation of banks to their customers and correspondents. Course 2 prerequisite. Two hours attendance. Two hours credit. Second semester. Martin, England

3. **Geography of Commerce**—A general survey of the fundamental conditions and human agencies affecting industrial and commercial development, followed by a careful study of the natural resources, industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relations between countries. (For a discussion of the physical basis of commerce attention is called to courses 5 and 6 of the Department of Geography). Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1914. Stephens

4. **American Industries**—A study of typical agricultural, extractive, and manufacturing industries of the United States. After tracing the principal raw materials from the producer to the factory, the various processes involved in manufacturing finished products are outlined. Then the finished products are traced to the consumer, great emphasis being laid upon marketing and shipping problems. Some of the industries are covered by lectures by the instructor and some by co-operative topical work on the part of the students. Two hours attendance. Two hours credit. Second semester. Stephens

5. **Principles of Accounting**—An introductory course designed to furnish such a knowledge of accounting as will be of value to the business manager and will also serve as a foundation for the work of the professional accountant. Emphasis is placed upon the essential features of bookkeeping, such as the principles of debit and credit, the various kinds of accounts and their relation to each other, the character and purpose of financial statements, and the like. A study is made of accounting principles and methods as illustrated in the accounts of mercantile, industrial and financial concerns. Two hours lecture. Four hours laboratory. Three hours credit. First semester. Martin

5a. **Principles of Accounting**—A continuation of course 5. Some practice will also be given in the designing of accounting systems and in the preparation of commercial and industrial statistics for the purpose of accurate business analysis. Prerequisite: Course 5. Two hours lecture. Four hours laboratory. Three hours credit. Second semester. Martin

5b. Advanced Accounting—A course in advanced accounting theory supplemented by practice in the solution of problems selected from C. P. A. examinations in various states. Some of the special topics considered are: the valuation of assets; capital vs. revenue expenditures; good-will; depreciation; reserves and reserve funds; sinking funds; realization and liquidation accounts; insolvency accounts; executorship accounts; dissolution of partnership; consolidation, etc. Prerequisite: Courses 5 and 5a. Two hours attendance. Two hours credit. First semester. Martin

5c. Advanced Accounting—This is a continuation of course 5b. In addition to the topics mentioned, consideration will be given to the accounts of municipalities and other governmental bodies, and of public institutions. Two hours attendance. Two hours credit. Second semester. Martin

5d. Auditing—The duties and responsibilities of an auditor; the methods of conducting various kinds of audits and their respective values; the preparation of the auditor's report, its content and value; the auditor's certificate. Prerequisite: course 5b. Two hours attendance. Two hours credit. First semester. Martin

5e. Cost Accounting—The nature and purpose of cost accounts and their relation to the commercial and financial accounts of a concern. A careful study will be made of each of the elements entering into the cost of the finished product: the purchase, handling and distribution of raw materials; the distinction between productive and unproductive labor; time-keeping and the apportionment of labor; the items entering into overhead expense, or "burden" and the various methods of apportioning these to the finished product. The relation of cost accounts to efficient management will receive special attention throughout the course. Prerequisite: Courses 5 and 5a. Two hours attendance. Two hours credit. Second semester. Martin

6. Fire Insurance—The rise, progress, and present status of fire insurance are briefly outlined and the functions of such insurance noted. Special attention is given to the making of rates and to hazards, the basis of rate making. The provisions of the New York standard policy are studied with considerable minuteness. The organization of the company and agencies, and the relations existing between company, agent, and insured are considered. Throughout the course the regulations of the Nebraska insurance Code and those of other states are emphasized. Three hours attendance. Three hours credit. First semester. Stephens

6a. Life Insurance—The historical development of life insurance is reviewed and the economic importance of such insurance emphasized.

The essential features of insurance administration, governmental control and supervision of insurance companies, the various methods of computing premiums, the organization and management of agencies, taxation of insurance companies, and other important questions are discussed. Special attention is given to a detailed comparative study of the chief provisions in various sample policy contracts. (Students desiring to study the mathematical basis of insurance are advised to take mathematics 32). Three hours attendance. Three hours credit. Second semester. Stephens

[7. **History of Commerce**—The development of commerce during mediaeval and modern times; bases of commercial prosperity; relation of the state to trade and industry; growth of commerce during mediaeval and modern times; bases of commercial exchanges; trading companies and corporations; development of shipping and the art of navigation; commercial policy of leading nations and an examination of the theories upon which they have rested. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Virtue]

[8. **Economic History of England**—A study of the stages through which English industry has passed: The agricultural organization under feudalism and its breakdown; important changes in agriculture in the 18th and 19th centuries; the evolution and organization of manufactures; the guild and domestic systems; the rise of the factory system and its social results; the industrial revolution; commercial history; the mercantile system and its decline; recent movement for protection; England's present industrial position. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Virtue]

9. **Economic History of the United States**—This course deals with the main lines of our industrial development from the colonial period to the middle of the 19th century. The chief topics discussed are colonial industries and commerce; the economics of the Revolution; the settlement of the West; the growth of fundamental industries; commerce and shipping; commercial policy, including the early history of the tariff; financial history, including monetary and banking arrangements; history of manufactures; labor systems and organizations. Two hours attendance. Two hours credit. First semester. Virtue

10. **Economic History of the United States**—A continuation of course 9, showing the economic development of the United States from the middle of the 19th century to the present time. The general lines indicated in course 9 are followed and new subjects are treated as they arise, such as westward expansion, land policy of the government, development, transpor-

tation, the economics of slavery, agrarian and labor movements, corporations and trusts, the growth of domestic and foreign commerce. Two hours attendance. Two hours credit. Second semester. Virtue

11. **The Economics of Colonization**—The economic objects and importance of present-day colonization. Nature of state expenditures whether for military or developmental purposes. Does state expenditure for colonies pay? Does trade follow the flag? Do colonies provide an outlet for capital? Will the white man settle the tropics? Especial attention given to American colonization and to African colonial problems. Two hours attendance. Two hours credit. First semester. England

12. **Economic Development of the Far East**—Monetary reforms in the Orient; extension of banking, investment of Western capital; projection of railways; opening of mines; development of commerce; share of Europe and America in Oriental trade; economic value of Central Asia; effect of industrial development of Japan and China upon the political control of Asia. Three hours attendance. Three hours credit. Second semester. England

13. **Economics of Agriculture**—A study of farm organization and management; size of farm units; forms of tenure; problems of tenancy; methods of marketing farm products; co-operation in selling and buying in the dairy industry, in supplying credit and insurance; social conditions of rural life. Text-books, reports and discussions. Two hours attendance. Two hours credit. First semester. Virtue

FOR GRADUATES AND UNDERGRADUATES

15. **History of Economic Thought**—Economic theory in ancient and mediaeval times; beginnings of economic science; Mercantilists, Cameralists and Physiocrats; Adam Smith, Malthus, Ricardo, J. S. Mill and other classical economists; Karl Marx and the economics of Socialism; Roscher and the Historical School; Jevons and the Austrian School; relation of industrial conditions to economic theory. Students registering in this course are expected to continue in course 16. Two hours attendance. Two hours credit. First semester. LeRossignol

16. **Recent Economic Theory**—A continuation of course 15. A special study of recent English and American economists. The subject is changed from year to year. Last year the works of Marshall and Fisher were used as the basis of the course; this year a special study will be made of the works of Clark and Davenport, and each member of the class will

select some one other writer for special study. Two hours attendance. Two hours credit. Second semester. LeRossignol

[17. **Financial History of the United States**—The course covers the field of the financial operations of the Federal government since 1789, but gives special prominence to the period since 1860. It deals with sources of Federal revenue and objects of expenditure; the movement of the public debt and its management; the evolution of our monetary and banking systems and current movements for their reform. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Virtue]

[18. **Tariff History of the United States**—While the tariff policy of the United States and its relation to industry and trade is the chief subject of study, the course includes also a survey of the tariff systems of other countries; a study of the merits of protection and free trade; our reciprocity agreements and their results; the consular service and its effects on trade development; the history of American shipping, the causes of its decline, the proposed methods of restoring it; recent progress and change in the character of our foreign trade. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Virtue]

19. **History of Economic Crises**—A comparative study of economic, industrial and financial crises from the seventeenth century to the present day. Especial attention is given to the recent world crises. The work covers the local and minor crises preliminary to the main crisis and the transmission of the crisis from country to country; the fluctuation in investment, bank items, and prices in the principal countries; the action and reaction between industrial activity and financial business. Supplementary readings on the theory of crises. Three hours attendance. Three hours credit. Second semester. England

21. **Stock and Produce Exchanges**—Boards of Trade: A description of the nature of the business carried on in the Paris Bourse, the Stock Exchange of London, the New York Stock Exchange, the New York Produce Exchange, the New York Coffee Exchange, the Cotton exchanges of New Orleans, Liverpool, and New York, and the Chicago Board of Trade. Options and futures, puts, calls and straddles. Corners in stocks, wheat, and cotton. Biographical sketches of prominent operators. Two hours attendance. Two hours credit. First semester. England

[22. **Municipal Industries**—A study of the principles and methods involved in the construction and operation of municipal public utilities; growth and importance of these industries in the United States and in

foreign countries; direct versus contract method of construction and repairs; municipal ownership versus regulated private ownership of the leading public service utilities. Three hours attendance. Three hours credit. Second semester. *Not given in 1914-1915.* Stephens]

24. Railway Transportation—This course includes a brief survey of the evolution of transportation; its relation to economic and social life; problems of railway competition and how they have been met; financial methods of railway companies; railway accounts; principles of rate making; state and federal legislation; public control through state and federal commissions; government ownership and its results. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. Second semester. Virtue

25. Corporation, Finance and Investments—This course includes an introductory study of the historical development of corporations; the advantages and disadvantages of large scale production; the various forms of combination, such as pools, trusts and holding companies, followed by a detailed study of the methods of promoting and capitalizing larger combinations, and various other important problems involved in their financing. Special emphasis is given to the discussion of the merits and demerits of the stocks and bonds of industrial, public service and railway corporations as investments, and the stock market methods underlying their purchase and sale. Three hours attendance. Three hours credit. First semester. Stephens

26. Trust Problems—The rise and development of trust forms of business organization; the conditions essential to the operation and growth of trusts; the elements of large-scale production and monopoly entering into the formation of trusts; dangers arising from their unrestricted operation; remedies, including governmental interference; Federal and state antitrust laws and decisions. Three hours attendance. Three hours credit. Second semester. Stephens

27. Business Organization—The essential features of the individual proprietorship, the partnership and the corporate form of organization; the location of the enterprise, its equipment, and the internal organization for the purpose of efficient operation; the employment of labor; the adjustment of the laborer to his work; modern wage systems; scientific management. The various types of organization—military, functional, staff and departmental—are considered with respect to their underlying principles and their application to different concerns. Two hours attendance. Two hours credit. First semester. Martin

28. Business Organization—This course deals with the mechanism of modern commerce and industry; the organization of extractive industries; factory organization; the various forms of wholesale retail trade organizations; department, mail order, and co-operative stores; stock and produce exchanges, and the like. The work of industrial and commercial associations will receive attention. Two hours attendance. Two hours credit. Second semester. Martin

31. Public Finance—This course embraces a study of the objects and growth of public expenditures of the leading nations; sources of revenue from government industries and from taxation; the chief features of various tax systems, especially of the United States and England; the principles upon which different forms of taxes rest and their industrial effects; systems of financial administration, especially the methods of managing the budget; public debts, their forms and methods of management. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. First semester. Virtue

32. State and Local Taxation—A seminar course with special reference to conditions, past and present, in Nebraska. A comparative study is made of the tax laws of various states, methods of administration and current movements for tax reform. Open to those who have had course 31, or its equivalent. Three hours credit. Second semester. Virtue

[34. Statistics and Prices—A study of the theory, preparation, interpretation, and application of economic statistics with especial reference to prices; determination of the rise and fall of general prices; comparison of the movement of prices of raw materials and finished products; prices in relation to wages and interest; price cycles; stock prices and profits. (Students desiring further work in statistics are advised to take Mathematics 31). Three hours attendance. Three hours credit. Second semester. *Given in 1915-1916 and alternate years.* England]

35. Work and Wages—History of the labor movement in Europe and America; wages in the 19th century; theory of wages; methods of remuneration; the minimum wage; hours and conditions of labor; migration; conflicts of capital and labor; conciliation and arbitration; employers' liability; insurance and pensions; workingmen in politics; relation of Socialism to the labor movement. (Students desiring further work in labor problems are advised to take Political Economy 36 and 37, and Political Science 19 and 20). Three hours attendance. Three hours credit. First semester. *Given in 1914-1915 and alternate years.* Le Rossignol

36. Methods of Industrial Peace—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organizations of employers and laborers; their aims and methods, interests of the general public; gains and losses through strikes; trade agreements; conciliation; voluntary and compulsory arbitration, co-operation, profit sharing; political activities of workingmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester. LeRossignol

37. Socialism—History of socialistic thought before the French Revolution; Utopias of Plato, More, Campanella; relation of the French Revolution to modern Socialism; Utopian theories of Owen, Saint-Simon, Fourier; communistic experiments in Europe and America; Proudhon, Blanc, and other French socialists; Marx, Engels, LaSalle and other German socialists; growth of Socialism throughout the world; Socialism in the United States; Syndicalism; recent socialistic theory and criticism. Three hours attendance. Three hours credit. First semester. LeRossignol

45. Economic Seminar—Open to a limited number of graduates and other advanced students. Each student will make an intensive study of a given subject, under the direction of a member of the Faculty, and will report the results of his investigations before the class. Members of the Faculty also will give lectures and take part in the discussions. One to two hours attendance. One to three hours credit. First semester. LeRossignol, Virtue, Stephens, Martin, England

46. Economic Seminar—A continuation of course 45. Students registering for course 45 will be expected to continue in course 46, and will receive credit according to the work which they do. One to three hours credit. Second semester.

POLITICAL SCIENCE AND SOCIOLOGY

Professor Howard (*Head of Department*), Professor Webster, Associate Professor Eaves, Associate Professor Aylsworth, Lecturer Sheldon

UNDERGRADUATE WORK

Courses 1 and 2 are open to all students and are recommended to those intending to teach civil government, or American history, in the schools, being especially adapted in method and matter to their needs.

Teachers' Certificate—Candidates for this certificate may elect the required special work in this department in conjunction with allied subjects. The following courses are suggested: Major—Courses 1, 2, 21, 15, 16, 11, 12; Minor—Courses 1, 2, 21, 15, 35 or 11. Other courses may perhaps be more valuable for particular students. Individual conferences are suggested.

REQUIREMENTS AND FACILITIES FOR GRADUATE WORK

The minimum requirement for the degree of Master of Arts is one full year's work or the equivalent of about thirty class-hours, including a thesis. A candidate may devote his entire time to the work of the department; or he may divide it between a major and a minor. A minor is the equivalent of nine class-hours. The selection of courses is influenced by the character of the thesis.

The minimum requirement for the degree of Doctor of Philosophy is three full years' work, of which about three-fifths, or the equivalent of about sixty class-hours, must be given to the major subject. The remaining two-fifths of the time, or the equivalent of about forty class-hours, must be devoted to a first minor or divided equally between two second minors. The particular courses in the major subject are selected with regard to the character of the thesis and with reference to the candidate's aim and preparation. The thesis must be the result of the sustained investigation of the original materials. Without undergraduate training in thesis-writing or research courses, it is difficult to take either the master's or the doctor's degree in the minimum period. Preferably minors may be selected in the departments of economics, history, or public law; but minors will be accepted in education, philosophy, or other departments, according to the needs of the candidate. In all cases a good knowledge of economics and history is required.

The facilities available for graduate study and research in both political science and sociology are excellent. The libraries of the University, city, state, and the State Historical Society afford the student access to an aggregate of about 290,000 volumes. The University Library contains the standard authorities and reference works on institutional history, social science, anthropology, ethnology, Roman law, historical jurisprudence, political economy, philosophy, government, politics, administration and statistics. It is especially strong in public documents and other material, source and secondary, for the investigation of problems in American government and administration. The State Library of 80,000 volumes supplements those of the University and the College of Law. It is one of the best

law libraries in the West—rich in materials for a comparative study of government and legislation in the different states. In the Historical Society's collections and the public archives at the state Capitol there is accessible a mine of source material for investigating state and local government and administration in Nebraska. When these resources prove inadequate in special investigations, desired books will be purchased or temporarily borrowed from other libraries.

The location of the University at the state capital gives special opportunities for personal observation and study of the actual problems and practical workings of state and municipal legislation and administration.

The Nebraska Legislative and Municipal Reference Bureau is now by act of the Nebraska legislature of 1911 affiliated with this department. Its library of several thousand books, pamphlets and clippings is on the campus and students are invited to make large use thereof. Several scholarships in research work for this bureau, worth from \$25 upwards, are open to capable students. University credit will be given for approved work under these scholarships.

Many valuable allied courses in economics, history, jurisprudence, and law are to be had in other departments.

COURSES PRIMARILY FOR UNDERGRADUATES

1. **American National Government**—Introductory study of salient features in historical development, political structure, and actual workings of national, state, and local governments as parts of one whole. National government, first semester. Open to all students. Three hours attendance. Three hours credit. First semester. Aylsworth

2. **American State Government**—Complement of course 1. May be taken before course 1 by consent of instructor. State and local government in general is studied. Nebraska is used as an example of both federal and state relations, and state and local government. Open to all students. Three hours attendance. Three hours credit. Second semester. Aylsworth

5. **Social Origins**—A study of the early life of mankind as revealed in material remains, customs, institutions, and beliefs. A detailed treatment will be made of such subjects as the origin and growth of language, beginnings of writing, history of the alphabet, genesis and development of the arts of life, domestication of animals and plants, primitive science, including the calendar, primitive art, including music and poetry, educational systems and the condition of children, matrimonial institutions and the condition

of women, origins of government and the state, secret and non-secret associations, rise of property and monetary systems, primitive trade, slavery, early law and morality. Primitive religion, discussed only incidentally in this course, is treated at length in its continuation, course 17. Lectures accompanied by a detailed reference syllabus. Three hours attendance. Three hours credit.

Webster

6. **Social Origins**—5 continued. Second semester.

7. **Modern Social Betterment Movements**—Social settlements; welfare work of large employers; efforts to protect the health of the public; housing problems; public parks, playgrounds and recreation centers; and other forms of modern social betterment activities will be studied. Open to all students except freshmen. Three hours attendance. Three hours credit. First semester.

Eaves

8. **Poverty and Dependence**—This course includes a general discussion of the causes of poverty and dependence and the principles of prevention and relief, with a more concrete study of modern methods of caring for the poor. State institutions for the care of dependents, the methods of work of charitable and religious societies, and emergency relief in times of great calamities will be among the subjects considered. Open to all students except freshmen. Three hours attendance. Three hours credit. Second semester.

Eaves

9. **Nebraska History and Political Institutions**—Aboriginal inhabitants, their life, lands, customs and remains. Spanish, French and American exploration. Early trade, travel and settlement. Territorial organization, laws, and institutions. Statehood. The making of Nebraska Constitutions. Immigration, railroad building, industrial growth. The economic and political revolution. Religion, education and social life. Present problems and the New Nebraska. Bibliography of documentary and other sources of Nebraska history. Lantern slide views of historic scenes and persons. Open only to juniors and seniors; others by special arrangement. Three hours attendance. Three hours credit. First semester. *Given in 1915-1916.*

Sheldon]

10. **Nebraska History and Political Institutions**—9 continued. Second semester. *Given in 1915-1916.*

FOR UNDERGRADUATES AND GRADUATES

11. **Party Government**—Organization and working of political parties in the United States. Growth of party system; the caucus and con-

vention; the direct primary; the party committee "machine" and "boss"; legal control and responsibility of parties; campaign funds; origin and influence of third parties; relation of the "merit system," the initiative, referendum, recall and "short ballot" to party government; party control of legislation and administration. Lectures, readings and reports. Open to juniors, seniors, and students having credit for 1 and 2 or their equivalent. Three hours attendance. Three hours credit. First semester.

Aylsworth

12. Municipal Government—Organization and administration of city government in the United States. Growth of cities; municipal home rule, the municipal council and executive, the initiative, referendum and recall, the commission plan and the city manager plan of city government, city planning, taxation and finance, public health, safety and recreation, franchises and public utilities, the municipal ownership problem, etc. Lectures, readings and reports. Open to juniors, seniors and students having credit for 1 and 2 or their equivalent. Three hours attendance. Three hours credit. Second semester.

Aylsworth

13. English Government and Politics—A study of British political institutions in comparison with our own; the English constitution, the monarchy, the cabinet, the Commons, and the Lords; political parties and party methods; the courts and judicial procedure; local government and administration; the colonial system; present day issues of constitutional reform and social legislation. Lectures, readings and reports. Open to juniors, seniors and students who have taken courses 1 and 2 or their equivalent. Three hours attendance. Three hours credit. First semester.

Aylsworth

14. Comparative Government—The national political systems of selected modern states, especially France, Germany and Switzerland. Constitutional beginnings and growth, governmental organization, legislative and administrative methods, the judicial system, present-day political parties and issues. Lectures, readings and reports. Open to juniors, seniors and students having credit for courses 1 and 2 or their equivalent. Three hours attendance. Three hours credit. Second semester.

Aylsworth

15. General Sociology—Principles of social science. For third and fourth year students and graduates. Three hours attendance. Three hours credit. First semester.

Howard

16. Problems in Social Psychology and Ethics—Chief psychic factors in social evolution. Laws of suggestion, mob-mind, and imitation; "craze," "fad," and sect; fashion, conventionality, custom, and tradition;

leadership, genius, hero-worship, role of great men; social conflict, compromise, discussion, free speech, free press, public opinion; social sins, standards of private and social ethics. Theories of Le Bon, Tarde, Sidis, Ward, and Ross. For third year and more advanced students. Three hours attendance. Three hours credit. Second semester. Howard

17. **Primitive Religion**—An anthropological and sociological investigation, from the comparative standpoint, of the evolution of religious beliefs and rites. The subjects naturally treated in such a course include animism, or notions of the soul, the future life, and the other world, important systems of religious belief, including fetishism, idolatry, worship of natural objects, animals, and plants, totemism, ancestor-worship, the cult of the dead and demonism, genesis and development of the idea of God, including polytheism, dualism, and monotheism, magic, together with divination and exorcism, taboo and the ritual of purification, origin and diffusion of myths, sacrifice and prayer, sacred days and festivals, religious mysteries, priest-hoods. Such topics as the classification of religions, connections between religion and morality, factors in the development of religion, etc., receive attention. Lectures accompanied by a reference syllabus. Three hours attendance. Three hours credit. First semester. Webster

18. **Primitive Religion**—17 continued. Second semester.

19. **Labor Legislation**—A study of European and American legislation protecting women and children wage earners, promoting industrial hygiene, and regulating the wages, hours of work, and the relations of individual workmen to their employers. Three hours attendance. Three hours credit. First semester. Eaves

20. **Labor Legislation**—The second half of the course on labor legislation is a study of the legal regulation of combined activities of wage earners. It will include a study of social insurance and of labor organizations in Great Britain and the United States. Three hours attendance. Three hours credit. Second semester. Eaves

21. **Socialization of Education**—This course will open with a brief summary of plans for the social and ethical training of the individual. The remainder of the time will be devoted to modern movements which are making the public schools more effective means for social progress. Medical inspection, vacation schools, recreation and lecture centers, industrial education, and the playground movement are among the topics considered. Two hours attendance. Two hours credit. First semester. Eaves

24. **Criminal Sociology**—Elements of criminology and penology. Particular attention will be given to modern methods of reform as expressed

in the juvenile court, reform school, parole, the indeterminate sentence, and better forms of prison management. Open to third year and more advanced students. Two hours attendance. Two hours credit. Second semester.

Eaves

25. **The Family**—A study of marriage, divorce, the home, sex-hygiene, child-saving, protection of motherhood, eugenics, education for parenthood and the family-life, and related questions. Lectures with readings on an analytical reference syllabus. Open to third year and more advanced students. Three hours attendance. Three hours credit. Second semester.

Howard

26. **The Family**—25 continued. Second semester.

27. **Present Political and Social Questions**—A discussion of some of the more important problems arising in American national, state and urban life. Lectures with readings on an analytical reference syllabus. Open to third year and more advanced students. Two hours attendance. Two hours credit. First semester.

Howard

28. **Present Political and Social Questions**—27 continued. Second semester.

[29. **Government of Nebraska**—A study of the organization and administration of state and local government; political and constitutional development; the legislature and legislation; the judicial system and judicial administration; governor and administrative system; institutional administration; local, county, and municipal government. Lectures, readings, reports. Open to second year and more advanced students. Three hours attendance. Three hours credit. First semester. *Not given in 1914-1915.*

Aylsworth]

[31. **State and Local Administration**—A study of administrative organization and activities in the different states; the governor and other state administrative officers; administrative significance of the short ballot, the departments of education, health, insurance, public lands, etc.; growth and influence of state boards and commissions; state civil service reform; centralization in state administration; state control of county, township, and municipal administration. Open to juniors, seniors and to students having taken courses 1 and 2 or their equivalent. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.*

Aylsworth]

[32. **Judicial Administration**—A study of our American judiciary, the system of courts, federal and state, their organization and jurisdiction,

unique position in the political system, movements to curb power and increase the responsibility of the judiciary, methods of procedure, civil and criminal, the jury system, defects and suggested reforms in judicial organization and administration. Open to juniors, seniors and students having taken courses 1 and 2 or their equivalent. May be made a three hour course. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Aylsworth]

33. Practical Legislation: Nebraska Problems—Introductory study of Nebraska's historical development, social, political, constitutional. Present problems in Nebraska law-making and administration. Subject-matter and methods of legislation. Drafting and criticism of legislative bills and information briefs in co-operation with Nebraska Legislative Reference Department. Practice work at state house during legislative session, January to April of odd numbered years. Two hours attendance. Two hours credit. First semester. Credited in the College of Law.

Sheldon

34. Practical Legislation: Nebraska Problems—33 continued. Second semester.

33a. Seminar on Nebraska History, Politics and Economics—Combined research seminar of the departments of American History, Political Science and Sociology, and Political Economy. General subject for 1914-1915 will be the earlier periods of Nebraska; special assignments may be made upon any phase of Nebraska's development if desirable and convenient. Open to advanced undergraduates on consultation with instructors, and to graduates. Two hours attendance. Two hours credit. May be registered for in either of the three departments. Given every year. First semester. Caldwell, Le Rossignol, Virtue, Persinger, Sheldon

34a. Seminar on Nebraska History, Politics and Economics—33a continued. Second semester.

35. Folk-lore—An examination of those systems of belief and conduct, which, inherited from prehistoric and primitive culture, have survived into modern civilization. After preliminary lectures on the study and classification of folk-lore, the subject is discussed under the following heads: 1. Folk-faith; animism; magic; myth. 2. Folk-literature; folk-tales, their origin, diffusion, and interpretation; fables; folk-songs, including ballads and children's rhymes; folk-epics, notably those of Celtic and Teutonic peoples; folk-plays, including mimes, mummers' plays, and miracles and moralities; folk-sayings, including proverbs and riddles. 3. Folk-custom; ceremonial forms and observances; rules of politeness and

salutations; birth, puberty, marriage, and death rites; popular festivals, especially the festivals of the Christian year; children's games; games of chance. 4. Folk-superstition; folk-medicine; sacred numbers; symbols; lucky and unlucky days; animal lore and plant lore. These several topics are treated with special reference to the beginnings of religion, law, and morality. The course should prove of special importance to teachers and to others interested in the study of childhood. Lectures accompanied by a reference syllabus. Two hours attendance. Two hours credit. First semester.

Webster

36. **Folk-lore**—35 continued. Second semester.

37. **Principles of Political Science**—The scope and methods of political science, the nature and origin of the state, forms of state and government, sovereignty, functions of the state, citizenship and nationality, modern principles of representation, suffrage, and governmental organization. Open to juniors, seniors and graduates. Three hours attendance. Two hours credit. First semester.

Aylsworth

38. **History of Political Theories**—The development of ancient medieval and modern political thought in its relation to political history; political theories of Aristotle, Aquinas, Machiavelli, Bodin, Grotius, Hooker, Hobbes, Locke, Montesquieu, Rousseau, Burke and others. Open to juniors, seniors and graduates. Two hours attendance. Three hours credit. Second semester.

Aylsworth

39. **Investigation of Social Problems**—This course aims to give training in the investigations of social problems and in the preparation for public use of the information gained. It is intended primarily for those who wish to prepare themselves for positions in connection with the social work of religious societies or of charitable or correctional institutions. Students who are already engaged in some form of social betterment activity and desire to make special studies connected with their work will be directed in the investigation of subjects of their own choice. The other members of the class will join in a co-operative study of the main topic selected for each semester's work. It is expected that participation in this intensive study will enable the students to become acquainted with the methods of collecting, organizing, interpreting, and presenting in good literary form the facts throwing light on selected problems connected with the social welfare of the state. Primarily for graduate students. Two hours credit. First semester.

Eaves

40. **Investigation of Social Problems**—39 continued. Second semester.

43. **Statistics**—Principles and methods of statistical science. Exercises in the investigation of social and demographic problems. Two hours attendance. Two hours credit. First semester. Eaves

PRIMARYLY FOR GRADUATES

49. **Seminar on American Politics and Government**—A study of some of the more important problems in present day political and social life. Primarily for graduates. One two-hour (evening) session each week. Two hours credit. First semester. Howard, Aylsworth

48. **Seminar on American Politics and Government**—47 continued. Second semester.

- [49. **Seminar on Municipal Problems**—American and foreign municipal conditions compared; forces determining location, growth, structure, and economic basis of cities; comparison of urban and rural conditions with respect to sociological factors; aspects of bad government; public ownership; "city beautiful," model "municipal program." For graduates and advanced undergraduates. One two-hour (evening) session each week. Two hours credit. First semester. *Given in 1915-1916 and alternate years.* Howard, Aylsworth]

- [50. **Seminar on the Family**—Mother-right, father-right, polygyny, polyandry, wife-capture, wife-purchase, theories as to genesis of matrimonial institutions; divorce, marriage, birth-rate, "race-suicide"; legislation and sex-education in the reform movement; intellectual and industrial liberation of woman; co-education; problems of marriage, the home, and the family. Primarily for graduates. By consent a limited number of other specially qualified students may be admitted. One two-hour (evening) session each week. Two hours credit. Second semester. *Given in 1915-1916 and alternate years.* Howard, Aylsworth]

53. **Round Table in Social Anthropology**—The study and informal discussion of a single standard treatise in the field of social anthropology, such as Tylor's *Primitive Culture*, Spencer's *Principles of Sociology*, Westermarck's *Origin and Development of the Moral Ideas*, and Frazer's *Golden Bough*. Particular attention is devoted to methods of anthropological research. Since this course deals in successive years with different authors, it may be several times repeated by the student and due credit granted therefor. The course is limited in numbers and intending students, before registration, should first consult the instructor in charge. One hour a week. One hour credit. First semester. Webster

54. **Round Table in Social Anthropology**—53 continued. Second semester.

RHETORIC

Professor Frye (*Head of Department*), Professor Fogg, Professor Buck,
Associate Professor Gass, Assistant Professor Howell, Assistant
Professor McPhee, Mr. Davis

GENERAL INFORMATION

It is the aim of the Department to further a systematic understanding of the principles of English composition and to cultivate correct habits of speaking and writing the English language. To this end all courses insist upon constant exercise in expression and upon frequent consultations with the instructors in addition to the regular class-room discussions and recitations. At the same time emphasis is laid, as far as possible, upon outside reading and study in illustration of the methods, and in preparation of the materials, of rhetorical practice.

ELECTION OF COURSES

Before the student proceeds to elective work, he must have completed courses 1 and 2 as a prerequisite. A student electing advanced work in rhetoric will find it advantageous to carry courses in English literature in connection, if he is not doing so already. Students intending to elect work in debate should take courses 13 and 14 in their sophomore year. Such students are also recommended to acquaint themselves with those subjects from which questions for debate are usually drawn—American history, European history, jurisprudence and public law, philosophy, political economy and commerce, and political science and sociology.

UNIVERSITY TEACHERS' CERTIFICATE

Because of the need of preparation in both Rhetoric and English Literature, for certificated teachers, no majors or minors are offered or accepted in either subject singly. A combined major or a combined minor is provided for such as are preparing to teach English in secondary grades. The combined major embraces courses 3, 4, 7, 8 in Rhetoric and courses 1, 2, 11, 12 in Literature. The combined minor includes course 7 in Rhetoric and course 1 in Literature. But with each major or minor, courses 17, 18 in English Literature must be taken as fundamental in either subject.

Candidates who intend to teach debate may make arrangements to substitute courses 13 and 14 for 7 and 8. Candidates should notify the department of their candidacy by the beginning of their sophomore year.

GRADUATE WORK

The department offers two lines of graduate work—Composition: On application students may arrange for rhetorical work in connection with English Literature leading to the Master's degree; Criticism: Students may also arrange for critical work in two or more languages, leading to the Master's or Doctor's degree.

COURSES PRIMARILY FOR UNDERGRADUATES

REQUIRED

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1914.

Frye, Buck, Gass, McPhee, Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters. Given in Summer Session, 1914.

Courses 1 and 2 are required of all freshmen in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering.

5. **English Composition**—Expository writing and kindred forms of expression. Three hours attendance. Three hours credit. First semester.

Frye, McPhee

6. **English Composition**—5 continued. Second semester.

Courses 5 and 6 are required of all sophomores in the College of Agriculture and may be elected, in place of 3 and 4, by students wishing an additional hour's work.

ELECTIVE

3. **English Composition**—1, 2 continued. Practice in general expression. Intended to give the student some control over his own thought and some faculty in its presentation. Two hours attendance. Two hours credit. First semester.

Frye, McPhee

4. **English Composition**—3 continued. Second semester.

23. **Newspaper Writing**—News-story and editorial writing. Two hours attendance. Two hours credit. First semester.

Gass

24. **Magazine Writing**—23 continued. Magazine exposition. Second semester.

25. **Narration**—Practical course in prose narrative writing. Admission by consent of instructor. Two hours attendance. Two hours credit. First semester. Given in Summer Session, 1914. Buck

26. **Narration**—25 continued with special attention to the short story. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

7. **English Composition**—Advanced course. Theory of English composition. Studies in the organization of literary material. Daily and fortnightly themes. Two hours attendance. Three hours credit. First semester. Frye

8. **English Composition**—7 continued. Critical studies in style and structure. Readings and reports to illustrate the principles of English prose literature. Daily and fortnightly themes. Two hours attendance. Three hours credit. Second semester. Frye

9. **Writers' Course**—Intended for advanced students who wish to improve their writing in connection with some particular subject of study or inquiry. No classes; themes, criticism and conferences. The student is expected to propose a subject, to prepare a theme, and to submit it to the instructor for criticism and advice with a view to revision and improvement. Two hours credit. First semester. Frye

10. **Writers' Course**—9 continued. Second semester.

11. **The History of Rhetoric**—A reading course in the history of rhetorical theory. Two hours attendance. Two hours credit. First semester. Gass

13. **Argumentation**—1, 2 continued. Principles of argumentative composition. Text-book, lectures, frequent writing, conferences; gathering of material; analysis; evidence; structure—brief-drawing; ethics of discussion. Briefs and arguments on questions of general or college interest or from the student's work in other departments. In the second semester a thesis, for which the training in the first semester directly prepares, may be substituted. Two hours attendance. Three hours credit. First semester. Fogg and Assistants

14. **Argumentation**—13 continued. Second semester.

15. **Debate**—Introductory course. Principles of argumentation practically applied to oral discussion of economic, ethical, historical, political,

and sociological questions. Weekly debates, preceded by briefs, in which each member takes part three times as principal speaker. The debates are criticised before the entire class. Open to students who have completed course 13 with credit and to others by special consent. Membership limited to twenty. Two consecutive hours attendance. Three hours credit. First semester. Fogg

16. **Debate**—15 continued. Open to students who have completed 13 or 15 and to others by consent of the instructor. Second semester.

17. **Debate**—Advanced course. Further training in investigation and oral discussion. Debates. Each member takes part three times as principal speaker. Conducted as course 15. Open to students who have completed 13 and 15 or 16 and to others by consent of the instructor. Membership limited to sixteen. Admission by consent of instructor. Two consecutive hours attendance. Three hours credit. First semester. Fogg

18. **Debate**—17 continued. Second semester.

19. **Public Address (Exclusive of Debate)**—Practical training in the composition of the public address not strictly argumentative. Practice in writing for definite audiences, the occasional address. Emphasis on persuasion and literary form, supplementing the course in argumentation and debate. Burke, Erskine, Webster, Lincoln, Phillips, Beecher, Curtis, and contemporary public speakers. Readings; conferences. To have taken or to be taking course 13 is advantageous. Two or three hours attendance. Three hours credit. First semester. Fogg

20. **Public Address (Exclusive of Debate)**—19 continued. Second semester.

22. **Debate**—Second advance course. Training of a more systematic kind. Original research. Open only to those students who have attained some excellence in argumentation and debate. Membership limited to twenty. Attendance to be arranged. Credit varies with the work done. First semester. Fogg

29. **The Nineteenth Century Essay**—Principles of English composition as illustrated by selected works of masters of modern English prose—Jeffrey, Hazlitt, Macaulay, Lamb, De Quincy, Carlyle, Ruskin, Arnold, Newman, and Stevenson. Frequent themes; personal criticism. Prerequisite: Courses 1, 2. Two hours attendance. Two hours credit. First semester. Fogg

30. **The Nineteenth Century Essay**—29 continued. Second semester.

32. The Teaching of Rhetoric and English Composition—Teachers' Course. Aims and methods of secondary-school instruction in rhetoric and English composition. General principles of composition. Discussion of text-books; themes. The management of theme courses. Practice in correcting themes. Open to Juniors, Seniors, and graduates. One hour lecture; three hours reading and observation. Two hours credit. Second semester.

Frye, Fogg

33. Comparative Criticism—A comparative study of the leading social ideas in the works of representative writers in France, Germany, and England during the latter eighteenth and early nineteenth century. Frequent reports and conferences. Intended to give the student some notion of the social ideas in literature as a foundation for its critical appreciation. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours lectures. Two hours credit. Given in Summer Session, 1914.

Buck

34. Comparative Criticism—A comparative study of the drama—Greek, Spanish, French, and English. Mainly a reading course, controlled by reports, critiques, and lectures. Intended to give the students some sort of foundation for the critical appreciation of literature. A reading knowledge of French is indispensable. Admission by consent of the instructor. Two hours attendance. Three hours credit.

Frye

41. Public Speaking—Intended especially for students who wish to prepare themselves for public speaking—debate and other forms of public address. Its object is to assist the student in acquiring an effective oral style—clear, direct, simple. Text-book, individual drill. Special attention to voice and gesture. Practice in various forms of extemporaneous speaking. Critical work in the delivery of one original oration each semester. Membership limited to fifteen. Admission by consent of the instructor. Three hours attendance. Two hours credit. First semester.

Howell, Davis

42. Public Speaking—41 continued. Second semester.

ROMAN HISTORY AND LITERATURE

Professor Barber (*Head of Department*), Assistant Professor Sanford,
Assistant Professor Hunter, Assistant Graham

The instruction aims to impart an understanding of the principles of the language through a study of its development and wide reading in the liter-

ature. The intention is to lead the student to build up his grammatical knowledge and to master the laws of the language from his own reading.

The instruction is not confined to linguistic and literary lines solely. The character and institutions of the Roman people are also studied with the view of leading students to an understanding of ancient Roman civilization and its bearing on modern life.

The required courses for the University Teachers' Certificate in Latin as a major are, 1, 2, 3, 4, 5, 6, 7 and 8. Equivalent work in the department may be substituted for 5 and 6 upon consultation with the head. The courses required for a minor are 1, 2, 3 and additional work assigned by the head of the department. The above courses must be preceded by the four years high school preparation, including composition (one period per week during the second and third years) and a thorough drill in the grammar. Students found to be defective in preparation may be required to take courses E and F in addition to the above.

In connection with this department is maintained a Latin Club of advanced students elected on the basis of scholarship and interest in the subject. Monthly meetings are held devoted to the reading of papers, choice passages of Roman literature, discussions, and Latin conversation. Eighty per cent of the dues are set aside for the purchase of some permanent memorial for the department.

MASTER OF ARTS

Candidates for advanced degrees must have completed courses 1, 2, 3, and 4, or their equivalents. Graduate study should include courses 5, 6, 11, and 12, after which subjects may be selected from any courses open to graduates. The basis of requirement is as follows:

Second Minor: Three hours of class-room work for one year.

First Minor: Six hours of class-room work for one year.

Major: Six hours of class-room work and the equivalent of four hours in the preparation of a thesis.

Complete Course: Nine hours of class-room work and the equivalent of six hours in the preparation of a thesis.

Theses may be prepared on any of the following subjects: the satirists, the Roman drama, Roman history, Roman oratory, elegiac poetry, poetry of the empire, prose of the republic, prose of the empire, sermo plebeius, patristic literature. By special arrangement a thesis may be prepared on some question of syntax covering the whole literature.

COURSES FOR UNDERGRADUATES

To enter course A the student must have had four books of Caesar with Latin composition. To enter course 1 the student must have completed courses A, B, C, and D.

Courses A and B give the student two preparatory credit "points" or six hours of college credit. Courses C and D two preparatory credit "points" and two hours of college credit, or ten hours of college credit.

A. **Cicero**—Three orations; Latin composition, drill in syntax. In written exercises the long vowels are marked. Three hours attendance. Three hours credit. First semester. Graham

B. **Cicero**—A continued. Second semester.

C. **Vergil**—Three books in the *Aeneid*. Drill in prosody, case and verb construction, and poetic expressions. Five hours attendance. Five hours credit. First semester. Hunter

D. **Vergil**—Three books of the *Aeneid*. Ovid's *Metamorphoses*. Two books. Drill as in C. Metrical reading of hexameters at sight. Practical examination of tense uses. Literary art of Vergil. Five hours attendance. Five hours credit. Second semester. Hunter

E. **Practical Course in Latin Syntax**—Practical drill in the principles of Latin syntax, preparatory to rapid and accurate reading. Two hours attendance. Two hours credit. Hunter

F. **Practical Course in Latin Syntax**—E continued. Special practice in translating long paragraphs of connected discourse.

1. **Cicero**—*De Senectute* with Latin composition. Drill in the syntax of moods and tenses; special attention to the classification of subordinate clauses. Livy begun. Five hours attendance. Five hours credit. First semester. Barber, Hunter

2. **Livy**—Books XXI and XXII. Practice in sight reading. Study of moods and tenses and subordinate clauses continued. Five hours attendance. Five hours credit. Second semester. Barber, Hunter

3. **Horace**—Selected Odes, Epodes, Satires, Epistles and *Ars Poetica*. A few passages memorized; occasional summaries; a brief view of social life in Horace's time; prosody. Four hours attendance. Four hours credit. First semester. Sanford

4. **Plautus and Terence**—*Captivi* and *Adelphoe*. A brief introduction to Roman drama; prosody. Tacitus' *Agricola* and *Germania*. Four hours attendance. Four hours credit. Second semester. Sanford

43. **Teachers' Course**—Lectures on methods of teaching Latin and on subject matter often overlooked. Model reading of sub-freshman authors. Courses 43 and 44 may be taken in lieu of two hours in general methods in the department of Education. One hour attendance. One hour credit. First semester. Graham

44. **Teachers' Course**—43 continued. Second semester.

49. **Roman Oratory**—General survey of the development of Roman oratory from the earliest period. Detailed study of the structure of speeches, methods of delivery, and effectiveness. Types of oratory employed at funerals, before armies, in the senate and Forum. Lectures and reports. Two hours attendance. Two hours credit. First semester. Hunter

50. **Roman Oratory**—49 continued. Special reference to oratory in the last days of the republic. Second semester.

51. **Scientific Latin**—A practical course in the word formation, vocabulary, phrases and continuous passages in scientific Latin. Especially adapted to students in medicine and the natural sciences. Two hours attendance. Two hours credit. First semester. Hunter

52. **Scientific Latin**—51 continued. Preparation of special material by students in the lines with which they are most concerned. Two hours attendance. Two hours credit. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

5. **Suetonius**—Lives of Julius and Augustus Caesar. Sight reading. Talks upon Roman life. Papers by the class. Two hours attendance. Two hours credit. First semester. Barber

6. **Pliny and Juvenal**—Selected letters. Selected satires. Reading from hearing. Collateral readings on Roman social life. Two hours attendance. Two hours credit. Second semester. Barber

7. **Roman Archaeology**—On public works the following are some of the subjects treated: Amphitheatres, aqueducts, arches, architecture, basilicas, bath-houses, building materials, catacombs, circi, columns, fortifications, fora, methods of building, roads, sewers, temples, theatres, walls, war implements. The following subjects bearing on the public and private life of the Romans are treated: dress and ornaments, household furniture, kitchen utensils, museums, manuscripts, pottery and vases, public buildings, private houses, sculpture, Vesuvius, Pompeii, Herculaneum, wall decorations. Lectures illustrated with lantern slides. Papers

are required of students on specially assigned topics. Not open to freshmen. Two hours attendance. Two hours credit. First semester.

Barber

9. **Cicero's Letters**—Selections arranged to throw light upon life and time of Cicero. Lectures on the style of the letters. Two hours attendance. Two hours credit. First semester.

Sanford

[10. **Quintillian**—Book X and selections from Book XII. Books I and II assigned for collateral reading as showing the educational methods in the first century A. D. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.*

Sanford]

11. **Composition**—A brief, illustrated review of the syntax of noun and verb, followed by practice in connected Latin writing. One hour attendance. One hour credit. First semester.

Sanford

12. **Composition**—11 continued. Second semester.

13. **Latin Grammar**—An elementary course in historical development of Latin moods. Tenses. Pronunciation. Lectures. One hour attendance. One hour credit. First semester.

Barber

14. **Latin Grammar**—13 continued. Second semester.

[15. **Plautus and Terence**—Course in rapid reading of seven or eight plays. Lectures on history of Roman drama. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.*

Sanford]

16. **Cicero**—Tusculan Disputations, Book I, studied with reference to Roman ideals concerning immortality. Selections from Lucretius, Seneca, and Buecheler's *Carmina Latina Epigraphica*. Two hours attendance. Two hours credit. Second semester.

Sanford

17. **Roman History**—From the earliest times through the early empire. Primarily for those preparing to teach Latin in secondary schools—open to juniors and seniors only. Text-book. Lectures. Two hours attendance. Two hours credit. First semester.

Sanford

18. **History of Roman Literature**—Lectures, with selections from representative authors. Open to juniors and seniors only. Two hours attendance. Two hours credit. Second semester.

Sanford

21. **Latin Morphology**—Latin in its relation to the other languages of the Aryan group. Sounds and their combinations, accent, and principles of word formation and derivation. Survey of the laws of linguistic growth and change as illustrated in Latin. Lectures and readings. One hour attendance. One hour credit. First semester.

Hunter

22. **Latin Morphology**—21 continued with historical study of the development of Latin. Second semester.

[27. **Vergil**—Selections from the Eclogues, Georgics, and Books VII-XII of the *Aeneid*, rapid reading course, of particular interest to prospective teachers of Latin. Special topics assigned for investigation by members of the class. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Sanford]

[28. **Ovid**—Selections from the *Heroides*, *Amores*, *Fasti*, *Metamorphoses*, and *Tristia*, a companion course to 27. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Sanford]

29. **Tacitus**—Selections from the Annals and Histories, treated as a basis for the history of the Empire from 14 to 70 A. D. Two hours attendance. Two hours credit. First semester. Sanford

30. **Martial**—Selected Epigrams, in illustration of Roman life under the early Empire. Two hours attendance. Two hours credit. Second semester. Sanford]

[31. **The Elegiac Poets**—Selections from Catullus and Tibullus. Lectures on the history of Roman elegiac poetry. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Sanford]

[32. **The Elegiac Poets**—Selections from Propertius and Ovid. 31 continued. Second semester. *Not given in 1914-1915.*]

[33. **Cena Trimalchionis**—This social novel studied with reference to Romance languages, but especially to popular speech and customs of the time. One hour attendance. One hour credit. First semester. *Not given in 1914-1915.* Sanford]

[34. **Cena Trimalchionis**—33 continued. Second semester. *Not given in 1914-1915.*]

[35. **Roman Religion and Mythology**—A lecture course. Occasional papers and reports by members of the class. One hour attendance. One hour credit. First semester. *Not given in 1914-1915.* Sanford]

[36. **Roman Religion and Mythology**—35 continued. Second semester. *Not given in 1914-1915.*]

37. **Roman Law**—Reading of selections from the public and private law of the Romans, accompanied by lectures. One hour attendance. One hour credit. First semester. Barber]

38. **Roman Law**—37 continued. Second semester.

COURSES PRIMARILY FOR GRADUATES

[19. **Lucretius**—Books I and III, with an examination into modal uses of the remaining books. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Barber]

[20. **Cicero**—de Oratore, Book I, with an examination into modal uses in Cicero's essays. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Barber]

[23. **Latin Paleography**—A study of Latin manuscripts. One hour attendance. One hour credit. *Not given in 1914-1915.* Sanford]

[24. **Roman Epigraphy**—Study of select inscriptions. One hour attendance. One hour credit. Second semester. *Not given in 1914-1915.* Sanford]

[25. **Seminary**—Special study of the syntax of the verb. Topics are assigned to students to investigate through the whole range of the literature. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Barber]

[26. **Seminary**—25 continued. Second semester. *Not given in 1914-1915.*]

[45. **The Personal and National Characteristics of the Roman People**—Lectures. Papers by the students. One hour attendance. One hour credit. First semester. *Not given in 1914-1915.* Barber]

[46. **The Personal and National Characteristics of the Roman People**—45 continued. Second semester. *Not given in 1914-1915.*]

ROMANCE LANGUAGES AND LITERATURES

Professor Conklin (*Head of Department*), Assistant Professor Reese,
———, Mr. Hanley, Miss Stenger

General undergraduate work enables the student to read modern and classical French with accuracy and appreciation.

Special undergraduate work provides for literary study in French, for practical drill in writing and speaking French and for the study of Italian and Spanish. Advanced students may, with the consent of the head of the department, avail themselves of the instruction offered in the Graduate College.

For the University Teachers' Certificate the following courses, or equivalents, are required: Major, courses 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,

15, 16, and 51, 52; minor, courses 1 to 14 inclusive. At least six semesters of strong work in the high school or three semesters in the University are required before specialization is begun.

REQUIREMENTS FOR MASTER OF ARTS

For graduate study in Romance languages at least three years of French are necessary. For the courses in the following groups equivalents are accepted:

Philological Group—Second Minor: Old French, historical French grammar, Italian, or Spanish. First Minor: Requirements for second minor and further study of Old French and of Italian or Spanish. Major: Old French, historical French grammar, Italian, and Spanish, advanced course in either Italian or Spanish, Provençal, Romance phonetics.

Literary Group—Second Minor: Studies of different periods in French literature, Italian, or Spanish. First Minor: Studies of different periods in French literature, Italian, and Spanish, or advanced course in Italian or Spanish, Old French. Major: French writing and speaking; studies of different periods in French literature; Italian and Spanish, advanced course in either Italian or Spanish; Old French, historical French grammar, special readings.

COURSES PRIMARILY FOR UNDERGRADUATES

French

1. **Beginning French**—Introductory course. Five hours attendance. Five hours credit. First semester. Given in Summer Session, 1914.

Conklin, Reese, Hanley, Stenger
2. **Beginning French**—1 continued. Second semester. Given in Summer Session, 1914.

3. **French**—Second-year course. Modern reading. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1914.
Conklin, Hanley, Stenger

4. **French**—3 continued. Second semester.

5. **French Writing and Speaking**—Recommended with 3. Two hours attendance. Two hours credit. First semester. Conklin

6. **French Writing and Speaking**—5 continued. Recommended with 4. Second semester.

7. **Classical Authors**—One hour attendance. One hour credit. First semester.
Reese

8. **Classical Authors**—7 continued. Second semester.
9. **Romantic School**—Two hours attendance. Two hours credit.
First semester. Reese
10. **Romantic School**—9 continued. Second semester.
11. **French Writing and Speaking**—Advanced course (Teachers' course). Two hours attendance. Two hours credit. First semester.
Conklin
12. **French Writing and Speaking**—11 continued. Second semester.
- ¹ 13. **Modern French Drama and Novel**—One hour credit. First semester. Given in Summer Session, 1914.
- ¹ 14. **Modern French Drama and Novel**—13 continued. Second semester.

Spanish

31. **Beginning Spanish**—Introductory course. Five hours attendance. Five hours credit. First semester. Given in Summer Session, 1914. Reese, ———
32. **Spanish**—31 continued. Second semester.
33. **Spanish**—Second year course. Three hours attendance. Three hours credit. First semester. Reese, ———
34. **Spanish**—33 continued. Second semester.
35. **Spanish**—Third year. Two hours attendance. Two hours credit. First semester. Reese, ———
36. **Spanish**—35 continued. Second semester.

COURSES FOR UNDERGRADUATES AND GRADUATES

French

15. **Studies of Different Periods in French Literature**—Prerequisite: Courses 7, 8, 9, 10, or equivalent work. Two hours attendance. Two hours credit. First semester. Conklin
16. **Studies of Different Periods in French Literature**—15 continued. Second semester.
17. **French Literature**—16 continued. First semester.
18. **French Literature**—17 continued. Second semester.

¹ Courses 13 and 14 interview work. Open to strong students with at least two years French. Consultation with head of the department before registration.

Italian

41. **Beginning Italian**—Introductory course. Three hours attendance. Three hours credit. First semester.
42. **Italian**—41 continued. Second semester.
43. **Italian**—Second-year course. Two hours attendance. Two hours credit. First semester.
44. **Italian**—43 continued. Second semester.

COURSES PRIMARILY FOR GRADUATES

French

51. **Old French**—Grammar and reading. Two hours attendance. Two hours credit. First semester. Conklin
52. **Old French**—51 continued. Second semester.
55. **French Philology**—Historical French grammar, phonetical analysis of French words. One hour attendance. One hour credit. First semester. Conklin
56. **French Philology**—55 continued. Second semester.

Provençal

61. **Grammar, Reading, and Analysis**—One hour attendance. One hour credit. First semester. Conklin
62. **Provençal Literature**—Second semester.

Romance Phonetics

65. **Comparative Phonetics of Italian, Spanish, French and Provençal**—Lectures. One hour attendance. One hour credit. First semester. Conklin
66. **Comparative Phonetics of Italian, Spanish, French and Provençal**—65 continued. Second semester.

SANSKRIT AND COMPARATIVE PHILOLOGY

(See Greek History and Literature)

DEPARTMENT OF SLAVONIC

Assistant Professor Sarka Hrbkova (*Head of Department*)

1. **Beginners' Course**—Grammar, vocabulary, exercises, word structure. Selections from Reader. Five hours attendance. Five hours credit. First semester.

2. **Beginners' Course**—1 continued. Grammar continued. Conversation. "Staré Pověsti" by Jirásek, "Babička" by Božena Němcová, "Pod Dutým Stromem" by Hálek. Five hours attendance. Five hours credit. Second semester.

3. **Bohemian Literature**—Reading and interpretation of Erben's "Kytice Pověstí," Neruda's "Povídky," Havlíček's "Tyrolské Elegie" and "Epigramy." Three hours attendance. Three hours credit. First semester.

4. **Bohemian Literature**—3 continued. Reading and interpretation of Jirásek's "Filosofská Historie," Hálek's "Básně," "Divá Bára" by Němcová. Three hours attendance. Three hours credit. First semester.

5. **Bohemian Literature**—Svatopluk Čech's "Jestřáb contra Hrdlička," "Písňe Otroka," "Lešetínský Kovář," Kollár's "Slávy Dcera." "Malá Slovesnost." One to three hours attendance. One to three hours credit. First semester.

6. **Bohemian Literature**—5 continued. Study of dramatic writings of Tyl, Klicpera, Šubert, Šamberk, Vrchlický. One to three hours attendance. One to three hours credit. Second semester.

7. **Short Story Course**—Reading and reports. Authors considered: Čech, Machar, Klecanda, Němcová, Třebízský, Neruda. Two hours attendance. Two hours credit. First semester.

8. **Short Story Course**—7 continued. Modern Bohemian, Russian, and Polish writers. The structure of the short story. Composition. Two hours attendance. Two hours credit. Second semester.

9. **Conversation**—Class-room exercises in Bohemian. Idiomatic and colloquial expressions. Review of grammar. Prerequisite: Bohemian 1 and 2 or satisfactory equivalent. Two hours attendance. Two hours credit. First semester.

10. **Conversation**—9 continued. Practice in every-day Bohemian. Composition. Two hours attendance. Two hours credit. Second semester.

11. **Slavic Life**—A lecture course in English on Slavic Life. Illustrated by 900 lantern slides covering subjects of history, customs, homes, occupations, costumes, amusements, child life, architecture, development of the arts and industries, social and educational ideals among the Slavic nations. One hour attendance. One hour credit. First and second semesters.

12. **Immigration**—A general view of the problem of the immigrant with special reference to the Slav. Sources and causes of emigration, racial, economic, political and social effects of immigration; assimilative forces at work; distribution of immigrants; character of recent immigration; restrictive and non-restrictive measures; proposed solutions of the problem. Two hours attendance. Two hours credit. First and second semesters.

13-14. **History of Bohemian Literature**—From the earliest times to the modern period. Based on Luetzow's "History of Bohemian Literature," Wratislaw's "The Native Literature of Bohemia in the Fourteenth Century," Pypin and Spasovič's "Historie Literatur Slovanských," Vlček's "Dějiny Poesie České," "Lietratura Ceska Devatenáctého Století," Tieftrunk, Jungmann, Morfil, Ninger. Two hours attendance. Two hours credit. First and second semesters. (Unless desired by a sufficient number of advanced students, this course will not be given.)

15. **Teachers' Course**—A special course in methods of teaching Bohemian. Assigned readings, reports, lectures, model teaching. A thorough review of the grammar and general summary of literature. Preparation of outlines for teaching. A survey of text-books used in teaching Bohemian. Suggestive helps and plans. Prerequisite: satisfactory work in courses 1, 2, 3, 4, 9, 10, 11 or their equivalent. Two hours attendance. Two hours credit. First semester.

16. **Teachers' Course**—15 continued. Two hours attendance. Two hours credit. Second semester.

17. **Slavic Literature**—Consideration and discussion of Slavic writers. Two hours attendance. Two hours credit. Second semester.

ZOOLOGY

Professor Wolcott (*Head of Department*), Professor Powers, Professor Barker, Miss Mantor; in Anatomy, Doctor Hiltoñ, Doctor Knight, Doctor Mantor, Doctor Arnholt

General Information

The department possesses such facilities as enable it to offer the usual undergraduate courses and graduate work along certain lines.

Students entering upon the study of zoology should elect courses 1 and 2, or 3 and 4, or A, the equivalent of a year's work being required for admission to all subsequent courses, except 21 and 22 and 36. Certain abbreviated introductory courses, to a certain degree specialized, are open only to students in particular groups, as 11 to students in pharmacy, 1s to those in forestry, and 14 to those in domestic science, but such course cannot be substituted for the beginning courses named above in meeting general requirements. Students looking forward to the study of medicine have offered to them, after completing the first year of work, course 9 or 15, 6, 7, and as electives 17 and 18. The requirements for the University Teachers' Certificate in this department are: for a 12-hour minor, courses 3, 4, 9, and 35 or 36; for a 16-hour minor, the same courses with the addition of 21 and 22; for an 18-hour or a 20-hour major, the same with the further addition of courses 6 or 7. Those who plan to specialize in zoology, after completing courses 1 and 2, should take 9, 7, and 6, after which they may select further work from the several lines open to them.

Attention is called to the opportunities for preparation in lines leading to professional work in zoology. A course in economic zoology and entomology is offered which fits the student for experiment station work, and government work in entomology; by slight modification and the proper use of electives the course furnishes suitable preparation for the work of the U. S. Biological Survey. The student may also, by the election of courses in parasitology, animal pathology, etc., readily adapt his preparation to the needs of the work in the Bureau of Animal Industry, and by the selection of certain courses chosen with the advice of the head of the department, prepare himself for work in the new laboratories of the Bureau of Fisheries. In all these lines there is a steady demand for properly trained men at good salaries. Students considering entering upon any of these lines of work are urged to consult freely with the head of the department.

GRADUATE WORK

Before entering upon graduate work in zoology, the student must consult with the head of the department as to the details of his course, even though his work may actually be done under the immediate direction of another member of the staff.

Among the facilities available for research work are a large collection of mites, a comparatively unworked group of great economic and scientific importance; a considerable and rapidly growing collection of parasitological material; and an aquarium room with permanent colonies of protozoa and a number of the lower invertebrates under various environmental conditions, which permits of experimental work upon these forms.

The publications of the departmental staff and of graduate students are included in a series entitled "Studies from the Zoological Laboratory," of which five volumes of twenty numbers each have been completed, while of volume 6 numbers 101 to 110 have been published, and others are in press and in preparation.

The department has available one fellowship and two scholarships which are given to deserving students each year. Applicants can secure full information in regard to them by addressing the head of the department.

MASTER OF ARTS

To register as a candidate for the degree of Master of Arts, a student must have completed two years of undergraduate work in zoology, and one in botany. The ordinary requirements are as follows:

Minor: An amount of advanced work equivalent to six credit hours, a minor thesis, and seminar work for one semester.

Major: An amount of advanced work equivalent to 12 credit hours, a major thesis, and assigned reading, including seminar work throughout the year.

Complete course: Work equivalent to full time for one year including reading and seminar work, and a suitable thesis.

DOCTOR OF PHILOSOPHY

The preparation required of the student is the same as for the Master's degree. The requirements are:

Minor: An amount of work approximating that of the complete course for the degree of Master of Arts.

Major: A course of graduate study which shall meet at least the mini-

imum time requirement imposed by the Graduate College; the preparation of a thesis which shall represent original research, and three years of seminar work.

FIRST YEAR COURSES

1. **Introduction to Zoology**—For beginners and those wishing a general insight into the methods and principles of the science. Strongly recommended to all whose time and schedule permit. The lectures cover the general principles of morphology, physiology, development, classification and evolution of animals; the laboratory work, an intensive study of a few selected types, with an extensive study of numerous others, both drawn largely from the simpler invertebrates, together with a study of mitosis and cell cleavage. Emphasis is laid on the study of living forms. Three hours attendance. Six hours laboratory. Five hours credit. First semester. Powers, Mantor

2. **Introduction to Zoology**—1 continued. Second semester.

3. **Introduction to Zoology** (Briefer Course)—For those whose time or schedule prevents enrollment for the previous course. The ground covered by the lectures is the same, but the laboratory work is confined to a few types, together with a study of mitosis and cell cleavage, and emphasis is laid upon methods. Three hours attendance. Four hours laboratory. Three hours credit.

a. Primarily for academic students. Powers, Mantor

b. Primarily for students aiming to enter medical or physical training courses. Barker

4. **Introduction to Zoology** (Briefer Course)—3 continued. Second semester.

A. **General Zoology**—For those who desire to complete the year's work in general zoology in one semester. This course covers the same field as courses 3 and 4. Five hours attendance. Eight hours laboratory. Five hours or, with additional assigned work, six hours credit. Second semester. Barker

11. **General Zoology**—A course open only to pharmacy students. The lectures deal with the general principles of animal morphology, physiology, and embryology. The laboratory work is based upon a study of several invertebrates, and one vertebrate type, and includes instruction in microscopical technique and in methods of gross dissection. Two hours lecture. One hour quiz. Four hours laboratory. Three hours credit. First semester. Barker

13. **Forest Zoology**—Consists of a brief review of the fundamental principles of zoology followed by a study of the animal life of forests, exclusive of insects, with particular attention to fish and game and to forms directly beneficial or injurious and which affect the propagation and growth of forest trees either in a state of nature or under cultivation. Open only to students in the Forestry Group. Three hours attendance. Four hours laboratory and field work. Three hours credit. First semester.

Wolcott

14. **General Zoology**—A course for students in domestic science, which, aside from dealing briefly with the general principles of zoology, aims particularly to provide a suitable basis for an understanding of the structure and functions of the human body. The laboratory work is devoted to selected invertebrate types, ending with a brief study of the cat. Three hours attendance. Four hours laboratory. Three hours credit. Second semester.

Wolcott

SECOND YEAR COURSES

5. **Invertebrate Morphology**—A general course continuing the work of the first year by carrying it on to other invertebrate types and leading up to the advanced courses of the third year. Conference, quiz, reading and laboratory work, the character of the course varied with the needs of the class and its preparation. Three or four hours credit. First semester.

Powers

6. **Comparative Anatomy of the Vertebrates**—Also a general course forming with courses 9 and 7 a year of vertebrate work. The class-work continues that of course 7 and completes a survey of the field. The laboratory work includes the dissection of a fish, amphibian, reptile or bird, and mammal, with demonstrations from preparations in other groups. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Wolcott

7. **Comparative Osteology of the Vertebrates**—A study in comparative morphology, with particular reference to the general plan of vertebrate structure and to the skeleton. For academic students and for medical students the course serves as an introduction to course 6 and forms with it a complete course in gross comparative anatomy. The course is complete in itself and may be elected independently of 6. Two hours attendance. Four hours laboratory. Two hours credit. First semester.

Wolcott

9. **General Embryology and Histology**—A brief academic course, dealing with vertebrate development, the nature and structure of tissues,

and the character of organs. Laboratory work including a study of both tissues and organs and the development of the chick and pig. During the course the student will acquire a general knowledge of microscopical technique. Three hours attendance. Eight hours laboratory. Four hours credit. First semester. Barker

12. **Economic Zoology**—A course in which the economic aspects of zoology are emphasized. Lectures, readings, laboratory and field work. Intended for those specializing in agricultural subjects. Three hours attendance. Four hours laboratory and field work. Three hours credit. Second semester. Wolcott

15. **Medical Zoology**—Lectures on Protozoa, Platyhelminthes, Nemat-helminthes and Arthropoda which produce or transmit the diseases of man, with particular reference to their structure, identification and life activities. The laboratory work includes a study of type forms, and the required preparation of slides and serves as an introduction to parasitological technique. Intended especially for the medical student. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Barker

ADVANCED COURSES

17. **Animal Parasites**—Taxonomy, morphology, biology and economic relationship of animal parasites. Lectures, laboratory and field work. The handling of a simple assigned problem usually on some undescribed species. Two hours attendance. Four to twelve hours laboratory. May be elected as a two to five-hour course. First semester. Open to students who have had Zoology 3, 4, and 9 or 15 or their equivalent. Barker

18. **Animal Parasites**—May be taken as a continuation of course 17, or may be elected independently. Second semester.

19. **Advanced Work in Animal Morphology**—Devoted to the study of some assigned problem in morphology. Laboratory work with conferences and reading. May be elected as a five to ten hours study. First semester. Elected only after consultation with instructor. Wolcott, Powers, Barker

20. **Advanced Work in Animal Morphology**—19 continued. Second semester.

21. **The Historic Concepts of Evolution**—The semester is devoted to the development of the evolutionary aspect of biology from approximately the beginning of the eighteenth century to the last quarter of the

nineteenth, covering the work of Darwin's most influential predecessors, or Darwin himself, and of his contemporary followers and critics. Lectures and assigned readings. Two hours attendance. Four hours preparation. Two hours credit. First semester. May be taken by those who have had only a year's work in biology with the consent of the instructor. Powers

22. **Modern Genetics**—This course naturally follows course 21, which must precede it for all except advanced students. The ground covered includes much of modern experimental evolution with the resulting recent genetic theories as well as some of their practical bearings. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Powers

25. **Advanced Work in Experimental Zoology**—Individual work on an assigned problem. Laboratory work with conferences and assigned readings. May be elected as a five to ten hour subject. First semester. May be taken only by permission of instructor. Powers

26. **Advanced Work in Experimental Zoology**—Course 25 continued. Second semester.

27. **Advanced Work on Local Fauna**—A course in ecology, devoted to the study of some problem connected with the distribution within the state of a certain group of animals, or with the fauna of a certain habitat. The aquarium room offers facilities for keeping material throughout the winter. Field and laboratory work with conferences and assigned readings. May be elected as a five to ten hour course. First semester. Open only to a limited number, by permission of instructor. Wolcott

28. **Advanced Work on Local Fauna**—Course 27 continued. Second semester.

32. **Zoological Fresh-Water Biology**—A field course. Open only to students who have taken or are taking Zoology 1 and 2, or 3 and 4. Four hours laboratory and field work, two hours preparation. Two hours credit. Second semester. Powers

35. **Methods in Teaching Zoology**—A course for high school teachers, including a discussion of the methods of presenting the subject, of the choice of books, and of the collection and handling of laboratory materials. Two hours lecture and conference. Assigned reading, laboratory and field work in addition. Two hours credit. First semester. Wolcott

36. **Ornithology and Nature Study (Teachers' Course)**—A course in ornithology which may be supplemented by a systematically arranged series of problems designed to train the power of direct observation and

deduction from such observation. Planned especially for those expecting to teach in the grades. May be elected as a one hour course in ornithology, demanding one hour attendance and an average of two hours of field and laboratory work weekly, or as a two-hour course in nature study, demanding in addition a conference hour and an additional field or laboratory period of two hours. Second semester. Open to all but recognized in part fulfillment of the group requirement for a degree only if elected as a two-hour subject, and by arrangement with the instructor. Wolcott

41. **Seminar**—Reviews of recent literature and discussion of current problems. Participated in by the department staff, open to election by advanced students, and required of candidates for advanced degrees, of whom are required reports on assigned readings. One hour attendance. One hour credit. May be elected more than once. First semester.

42. **Seminar**—41 continued. Second semester.

43. **Research**—The equipment of the department and the library facilities are such that research along certain lines indicated below is being carried on. An extensive Salt Basin, including a salt lake over a mile in extent and alkali flats with numerous ponds, all within a few minutes' walk of the campus, offer noteworthy opportunities for certain types of investigation.

a. Morphology of the mites. Ecological studies and investigations on the local fauna. Study of variation in certain insect groups, particularly the tiger-beetles. Wolcott

b. Morphology of the protozoa. Experimental research on reproduction of fresh-water hydroids and rotifers; and on problems involving growth, regeneration, color pattern, etc., in the salamander. Variational and distributional studies on the animal life of ponds, especially those of the Salt Basin. Powers

c. Morphology of the parasitic protozoa and worms. Barker

Human Anatomy¹

A1. **Anatomy for Dental Students**—A course in Human Anatomy covering the skeleton and the gross anatomy of the head, neck and arm, and open only to students registered in the dental college. Two hours attendance. Six hours laboratory. Three hours credit. First semester.

Wolcott, Hilton, Arnholt

A2. **Anatomy for Dental Students**—A1 continued. Second semester.

A11. **Histology and Embryology**—A course arranged for dental students and covering the histology of tissues and certain organs, general

embryology, and the special histology and embryology of the teeth. Open only to dental students and not accepted as a substitute for any other course. Eight hours laboratory, quiz and recitation. First semester.

Wolcott, Arnholt

A15. Anatomy for Students of Physical Training—A course designed to acquaint students of physical training with a general knowledge of the human body and a more detailed knowledge of the muscular system, the peripheral vessels, and nerves of the viscera and planned to give the students such a knowledge of the human body as will enable them to intelligently apply the principles of Physiology, Physical Culture, and Hygiene to the individual problems they encounter. It must be preceded by Zoology 1 and 2, and preceded or accompanied by Zoology 7. Two hours attendance. Six hours laboratory. Three hours credit. First semester.

Wolcott, Knight, Mantor

A16. Anatomy for Students of Physical Training—A15 continued. Second semester.

¹No credit can be given for these courses in the College of Medicine.

University Extension

UNIVERSITY EXTENSION

A. A. Reed, Acting Director

Aim of Regents—The constant aim of the Regents of the University of Nebraska is to make the University a school of the people, by the people, and for the people—to bring the University and the home in closer touch; to give every citizen a chance to get the highest education at the smallest possible cost; to take the University to all the people of the state who are unable to adjust themselves to the formal system of education.

Purpose of University Extension—The purpose of University Extension work is to give all persons who are unable to formally attend school an opportunity through correspondence study to investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational,—problems in sanitation, city lighting, sewerage; banking, crises, money, divorce,—in fine, all problems that may concern the citizens of Nebraska.

To Whom the Work Appeals—University Extension work, therefore, appeals to the following classes of persons: (1) rural, grade, and high school teachers who cannot avail themselves of resident instruction; (2) students preparing for college; (3) college students who are unable to pursue continuous resident study; (4) teachers and others who have a partial college course and wish to work along some special line; (5) instructors in higher institutions who desire assistance in the advance study of some subject; (6) professional and business men who wish technical information; (7) ministers and Bible students who wish to study the sacred scriptures from a literary standpoint; (8) all who desire a broader knowledge or a more thorough and comprehensive scholarship.

Division of Work—As a matter of convenience, the work is divided into four departments as follows:

- I. Correspondence-Study.
- II. Instruction by Lectures.
- III. Debating and Public Discussion.
- IV. General Information and Welfare.

I. CORRESPONDENCE-STUDY

The possibility and efficiency of teaching by correspondence-study has already been demonstrated by practical experience in University Extension work in the leading universities and colleges of both Europe and America. While such instruction lacks some of the advantages which resident study gives, it has compensating advantages of its own. In correspondence instruction the teaching is personal and individual. Every student studies and recites the whole lesson, and comes in contact by correspondence with the teacher as an individual, not as a member of a large class. Correspondence-study employs the spare time of the student, gives him an interest besides his daily work. It can be done at home, and thereby brings into the home a new influence and charm. Correspondence work, moreover, throws the student upon his own resources and makes him self-reliant and self-determining.

Through this department, the University is reaching out a helping hand to every citizen. It plans to add to the resources of life, of education and of industry; to give practical assistance to the farmer and the mechanic, to the professional man and the business man, to the employer and the employee, to teacher and to student, to farmer boy and farmer girl, to housekeeper and home-maker.

For all who desire to take correspondence-study the University of Nebraska, through its Extension department, is able to offer:

First. Correspondence courses of study in all subjects required for city, county and state certificates.

Second. Correspondence courses of study for credit, as follows:

UNIVERSITY CREDIT

Administrative School Law—two hours.

American Government—three hours.

American History 3—three hours.

American History 4—three hours.

Agriculture, Introductory—three hours.

Agronomy 1, Soils—two to four hours.

Agronomy 2, Field and Cereal Crops—two to four hours.

Bohemian 1—four hours.

Bohemian 2—four hours.

Bohemian 7—two hours.

Bohemian 8—two hours.

Civics and Health—two hours.

Educational Theory and Practice—

School Organization and Administration—two to three hours.

The Art of Study—two to three hours.

English Literature 1—two to three hours.

English Literature 2—two to three hours.

English Literature 3—two to three hours.

English Literature 5a—three to five hours.

English Literature 6a—three hours.

English Literature 7—one hour.

General Science—two hours.

Geography—

Physical—two hours.

Industrial—two hours.

Nebraska—two hours.

Geology—two hours.

German.

Greek History—three hours.

Heating and Ventilation—two hours.

Home Economics.

Cookery 3a—two hours.

Cookery 4a—two hours.

Latin Composition—two hours.

Life and Times of Lincoln—three hours.

Mathematics 1—five hours.

Mathematics 2—five hours.

Mechanical Drawing—three hours.

Nebraska History and Nebraska Problems—four hours.

Reading—two to three hours.

Rhetoric 1a—three hours.

Rhetoric 1—two hours.

Rhetoric 2—two hours.

The Secondary School—two hours.

The Rural School—one hour.

Weather and Climate—two hours.

Zoology 1—three hours.

Zoology 2—three hours.

ENTRANCE CREDIT

Algebra—two points.

Arithmetic—one point.

Elementary Agriculture—one point.

American Civics—one point.

Plane Geometry—two points.

Grammar—one point.

Beginning Latin—two points.

Physics—two points.

Methods of Work and Instruction—Each lesson contains: (1) full directions for study, including reference to the text-books by chapter and page; (2) necessary suggestions for assistance; (3) questions to test the student's method of work as well as his understanding of the ground covered. After a careful study of the subject, the student writes his answers to the questions, with a statement of any difficulties that may have arisen during his study, and mails them to the Director of University Extension, Station A, Lincoln, Nebraska. The answer papers are carefully read and marked by the proper examiner, and are returned to the proper student by the Director. In like manner every lesson is carefully criticised by the instructor and returned, so that each student receives personal guidance and instruction throughout the course. The following specific directions must be followed by all correspondence students: The writing material should be the regular student's note-paper, regular teacher's examination paper, or single sheet legal cap. All papers must be written in ink. Answers shall be written on one side of the paper only. The name of the course and the name and address of the student must be written at the top of the first page of each set of answer papers. Each page of answer papers must be properly numbered and fastened together in consecutive order before mailing to the Extension office. Answers must be in clear, concise terms. The answers must be numbered in the middle of the page to correspond to the questions. Credits will be deducted from carelessly written or illegible manuscripts. Correspondence students must use sufficient postage when mailing answer papers to the Extension office. On returning these papers to correspondence students, the Extension office will furnish the postage.

Requirements for College Credit—Three hours' preparation constitute the minimum requirement in Extension work in any and all subjects for one hour of college credit. No credit is given without the approval of the head of the department in which the Extension work is taken. The final examination is given under such rules and regulations as the head of the

proper department may require. Only one-half of the unit hours required for graduation may be taken in correspondence study.

Requirements for Entrance Credit—Ten hours of preparation each week for one semester or a period of sixteen weeks constitute the minimum requirement in the Extension work for a credit point for entrance to the University. No entrance credit is granted without the approval of the head of the proper department.

Requirements for Certification Credit—Extension work pursued by those desiring to fit themselves for the teachers' examination for county, city or state professional certificates granted by the State Superintendent of Public Instruction is given under the supervision of the Director of University Extension, with the approval of the head of the proper department.

Expenses and Fees—The fees for correspondence study are placed upon the lowest operating basis possible for thorough and expeditious instruction. Those who will investigate the fees charged by other state universities, private schools and colleges for correspondence study will find that the University of Nebraska has undertaken to do University Extension work at a lower cost to its students in the Extension department than has ever been done before in this country, and at the same time not lower the efficiency of the instruction given. The fact must be borne in mind that the correspondence student is usually engaged in a gainful occupation or profession, whereas the resident student temporarily suspends his earning power. The correspondence student may also be said to be turning his leisure time into economic values by this method. These and many other factors contribute toward establishing this as an inexpensive system of achievement and education. All fees are payable in advance. There will be no refund of any fee paid for Extension work unless the University is unable to give instruction in the course of study applied for by the student.

Text-Books and Supplies—All text-books and supplies necessary for the work desired may be bought from the Purchasing Agent, Station A, Lincoln, Nebraska, at cost. The student may purchase direct from the publisher, but it will expedite matters for those who take the work, as well as for the extension department, to deal direct with the Purchasing Agent of the University, and in nearly every case it will be cheaper for the student so to do, as the University can secure all books at wholesale price, while the student could obtain only retail prices.

Time for Completing Work—It is assumed that a semester's course of study in correspondence work may be completed by the average student in

eighteen weeks on a minimum leisure for study of one hour and a half per day, six days in the week. It is, however, the student's privilege to pursue his studies as fast as he can or as slow as he must. If for reasonable cause the student desires more than one semester in which to complete the semester's work, this may be granted, but only under extraordinary circumstances will the student be given more than one year from the date of registration in which to complete a course of study. All students taking correspondence work are cautioned against trying to carry too much work at one time. When the student is over-burdened by regular daily duties and correspondence study, University Extension work will become a punishment and a detriment rather than a pleasure and an inspiration as it may when a reasonable amount of work is undertaken.

May Register Any Time—One of the best features of University Extension work is that the student may register at any time and pursue the course of study alone, if necessary. As a rule better work can be done where there is a class of persons working together in an Extension center under a competent leader. But this will be impossible for a great number of those who desire to do Extension work. Therefore, they are given the opportunity of registering at any time and working alone.

Examinations—Where the student is taking correspondence-study to prepare for the examination for a teachers' certificate, the final examination will be given under the rules and regulations governing the county teacher's examination, and will be conducted by the county superintendent or by the city superintendent of normal training high schools. This will place the examination within easy reach of every teacher taking the work. Where the final examination is taken for University credit, it will be given under the authority of the University of Nebraska and will be conducted by county superintendents, city superintendents and high school principals throughout the state as representatives of the University. This makes all examinations especially convenient for all who may be taking correspondence-study.

II. INSTRUCTION BY LECTURES

Instruction by lectures is an important feature of University Extension work. The University of Nebraska is able to offer through its Extension department first-class lecture talent at reasonable rates.

Nearly all members of the faculty are available for lecture engagements. Many lectures and addresses can be secured for educational gatherings on the payment of actual expenses. In all cases the charge is nominal.

III. DEBATING AND PUBLIC DISCUSSION

We cannot better emphasize the aims of this department and the value of Debating and Public Discussion than to quote from the report of Dean Louis E. Reber, Director of University Extension of the University of Wisconsin: "This department aims to arouse and stimulate among all classes of people an intelligent and active interest in important social and political questions. Believing that there is no form of popular education that tends more essentially to the making of good citizens than study and discussion of live issues, the department collects and maintains a loan library of books and periodicals relating to questions of the day, available upon application, issues bulletins on special topics, and keeps in touch by correspondence or personal interviews with civic leagues, town councils, library and school boards, farmers' and business men's clubs, high school and academy societies, and all similar organizations throughout the state. It is difficult to estimate the value of wide-spread, systematic training of this character in its influence upon the citizens of the state. It is conceded that no other study in the university or college does more to discipline the mind and promote an interest in questions vitally affecting humanity and the government than the work done in debating societies. It is fortunate that so useful and so broadening a pursuit can be carried on in the home of the student without interruption to his regular occupations. Without other outlay than time and thought the debater is led, first to feel an interest in and desire to know about the great national and state issues of his day. This point gained, he is taught where and how to obtain material for his studies, a valuable asset in itself, if by this means he acquires the ability to inform himself when and upon what subjects he will. In studying great questions and formulating them for debate he learns to discriminate between fundamental underlying principles and non-essentials. He comes to recognize sound reasoning, not only in questions he debates, but in all his reading. In presenting arguments in public he is gaining lessons of self-control, of correct speech, and of concise thinking. That an immense influence may be exerted in countless directions by means of such training spread abroad throughout the state is evident."

The Nebraska High School Debating League was organized by Professor M. M. Fogg, Department of Rhetoric, University of Nebraska, in January, 1908, at the earnest solicitation of several of the leading school men in the state, for the purpose of promoting oral discussion in Nebraska secondary schools. Thirty-one schools participated in twenty League contests during the first year of its organization. Each year since there has been an increase

in the membership and interest. Where any school belonging to the League desires material on the subjects to be debated during the ensuing year, it will be furnished at actual cost through the Extension department. This material is selected by expert debaters working under the direction of Professor Fogg. This plan reduces the cost for debating material to the minimum for all schools belonging to the League.

IV. GENERAL INFORMATION AND WELFARE

The departments of history, political economy, sociology and the colleges of agriculture, law and medicine will, through the General Information and Welfare Department of University Extension, render valuable assistance to thousands of persons throughout the state.

University Extension is for the benefit of all the people and must be comprehensive both with reference to including the work of all departments of the University proper, so far as practicable, and in covering the widest possible range of study of all questions that concern the people of the commonwealth. Its purpose is clearly set forth in Professor Caldwell's report to the Chancellor and Board of Regents, made April 18, 1908: "To investigate all problems—artistic, literary, historical, social, industrial, moral, political, educational; problems of sanitation, city lighting, sewerage; banking crises, money, divorces, etc.—in fine, all problems that may concern the citizens of Nebraska."

For further information relative to any question concerning University Extension work, write the Director of University Extension, Station A, Lincoln, Nebraska.

The College of Engineering

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

OSCAR VAN PELT STOUT, C. E., Professor of Civil Engineering and Dean of College of Engineering. (*Head of Department of Civil Engineering*).

ELLERY WILLIAMS DAVIS, Ph. D., Professor of Mathematics and Dean of the College of Arts and Sciences. (*Head of Department of Mathematics*).

GEORGE RICHARD CHATBURN, A. M., C. E., Professor of Applied Mechanics and Machine Design. (*Head of Department of Applied Mechanics and Machine Design*).

JAMES DAVID HOFFMAN, M. E., Professor of Mechanical Engineering and Practical Mechanics. (*Head of Department of Mechanical Engineering*).

LEON WILSON CHASE, B. Sc. in M. E., Professor of Agricultural Engineering. (*Head of Department of Agricultural Engineering*).

GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation*).

JAMES EDWARD LE ROSSIGNOL, Ph. D., Professor of Political Economy and Commerce and Director of the School of Commerce. (*Head of Department of Political Economy and Commerce*).

CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics. (*Head of Department of Physics*).

BURTON EVANS MOORE, Ph. D., Professor of Physics.

CARL CHRISTIAN ENGBERG, Ph. D., Executive Dean and Professor of Applied Mathematics.

OLIN JEROME FERGUSON, M. E. E., Professor of Electrical Engineering. (*Head of Department of Electrical Engineering*).

¹ Resigned.

- PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of Department of Rhetoric*).
- BENTON DALES, Ph. D., Professor of Chemistry. (*Head of Department of Chemistry*).
- ¹ EVERETT NEWTON BOWMAN, 1st Lieut. Inf. U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics*).
- JOHN SINGLETON SWITZER, Major Inf. U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics*).
- WILLIAM FRANCIS DANN, A. M., Professor of History and Criticism of the Fine Arts. (*Head of Department of History and Criticism of the Fine Arts*).
- GEORGE OLIEH VIRTUE, Ph. D., Professor of Political Economy and Commerce.
- WILLIAM CHARLES BRENKE, Ph. D., Professor of Mathematics.
- CLARK EDMUND PERSINGER, A. M., Professor of American History.
- PHILIP K. SLAYMAKER, M. E., Professor of Machine Design.
- ELLERY LOTHROP DAVIS, A. B., Associate Professor of Architecture.
- LOUIS BRYANT TUCKERMAN, JR., A. B., Associate Professor of Theoretical Physics.
- CHARLES LEE DEAN, B. Sc. in M. E., Associate Professor of Mechanical Engineering.
- JUDD NOBLE BRIDGMAN, M. S., Associate Professor of Civil Engineering.
- NELS AUGUST BENGTON, A. M., Associate Professor of Geography and Conservation.
- SARA SHEWELL HAYDEN, Associate Professor of Drawing and Painting.
- JESSE EPHRAIM RASMUSEN, B. Sc. in M. E., Associate Professor of Engineering Drawing.
- GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.
- BENEDICT FREDERICK RABER, B. Sc. in M. E., Associate Professor of Mechanical Engineering.

¹ Resigned.

- VERNON LEO HOLLISTER, E. E., Associate Professor of Electrical Engineering.
- ADOLPH STORM RIDDERVOLD, Assistant Professor of Civil Engineering.
- ALBERT EGGLETON BUNTING, Assistant Professor of Practical Mechanics.
- CLARK EDWIN MICKEY, B. Sc. in M. E., B. Sc. in C. E., Assistant Professor of Applied Mechanics.
- ALVA ALDUS BAER, A. B., Assistant Professor of Agricultural Engineering.
- LAWRENCE FROYD SEATON, B. Sc. in M. E., Assistant Professor of Agricultural Engineering.
- ELMER EUGENE BRACKETT, B. Sc. in E. E., Assistant Professor of Agricultural Engineering.
- IVAN DALEY WOOD, B. Sc. in A. E., Instructor in Agricultural Engineering.
- EARLE BRUSH KINGSLAND, Ph. B., B. Sc. in C. E., Instructor in Civil Engineering.
- ROBERT L. MOORE, Instructor in Forge.
- RALPH WILLIS GODDARD, B. Sc. in E. E., Instructor in Electrical Engineering.
- WALTER SCOTT PAYNE, Instructor in Machine Shops.
- JOHN GRENNAN, Instructor in Forge and Foundry Work.

Standing Committees of the College of Engineering

Course of Study—Professors Chatburn, Ferguson, Hoffman, Chase, and the Dean.

Schedule of Classes—Professors Engberg, Hollister, Dean, Rasmusen, Riddervold, Slaymaker, Bridgman, Tuckerman, Brenke, Mickey, Bunting, the Registrar.

Advanced Standing—The Chancellor, the Dean, and Inspector of High Schools.

Unclassed Students—Professors Hoffman, Ferguson, Chatburn, and the Registrar.

ORGANIZATION OF THE COLLEGE OF ENGINEERING

By an act of the Legislature of 1909, the Industrial College of the University was abolished and the engineering departments, formerly included in that college, were organized into a College of Engineering. It is the purpose of this college to give a broad, thorough training in mathematics and the physical sciences, with the application of these subjects to the fundamental and special branches of engineering science. While strongly emphasizing those subjects which are of fundamental importance to all branches of engineering, a considerable amount of specialization is permitted in the several groups of study offered by the college. In each department of instruction the work in the class room is made clear and real by extensive work in the laboratories.

EQUIPMENT AND FACILITIES FOR INSTRUCTION

Three buildings on the University Campus and one at the University Farm are devoted primarily to the work in the College of Engineering: the Electrical Engineering Laboratories, erected in 1891; Mechanic Arts Hall, erected in 1898; the Mechanical Engineering Laboratories, erected in 1909, and Machinery Hall.

Mechanic Arts Hall is devoted to the work in civil engineering, electrical engineering, applied mechanics and machine design and mathematics. In addition to the lecture rooms, designing and instrument rooms and offices of these departments, the building contains the materials laboratories, the engineering library and several drawing rooms.

The Materials Laboratories, devoted to the testing of the strength and other properties of the materials of construction, occupy three rooms in Mechanic Arts Hall. The first, 20 by 65 feet, contain a 200,000-lb. Riehle universal testing machine, a 50,000 Olsen universal machine, a 50,000-in. lb. torsion testing machine, an engine lathe and other tools for preparing specimens, cases for deflectometers, compressometers, extensometers, and other instruments and apparatus for the proper operation of these machines. An adjoining room, 30 by 40 feet, contains two types of cement testing machines, tables and apparatus for molding and storing briquettes; apparatus for consistency, setting, soundness and fineness tests. Also standard testing machines for abrasion, toughness, cementation, and other properties of rocks, brick, soils, sand and other non-bituminous road-making materials. The third room, 15 by 25 feet, is equipped for classifying and testing bituminous road and paving materials, there

being a Dow penetration machine and various forms of apparatus for determining specific gravity, viscosity, consistency, flow, tenacity, etc.

The Engineering Library contains a large and valuable collection of engineering and mathematical books, bound periodicals, transactions of engineering societies, with all the more important engineering journals. The completeness of this library makes it well adapted for study and research.

Surveying. For the work in surveying a large assortment of levels, transits, plane tables, rods, chains, etc., is provided.

Drawing Rooms. The freshman drawing room, a large, well lighted and well ventilated room, is situated on the fourth floor of Mechanic Arts Hall. It is supplied with good oak desks and instrument lockers to accommodate six sections of fifty students each. The drawing rooms for machine design and mechanism are on the third floor of the same building, while those for civil engineering classes are on the second and first floors. Other rooms for the mechanical and electrical engineering students are in the buildings devoted to those subjects.

The Electrical Engineering Laboratories, consisting of the main power laboratory, the photometry laboratory, and small research laboratories, furnish facilities for instruction in the practical management of stationary and dynamo electric machinery and apparatus, as well as the illustration of modern current practice in design. The equipment has been selected largely with a view to emphasizing the application of theoretical principles to practical commercial electrical engineering. Measuring instruments and testing devices are provided covering a wide range of experimental requirements. There follows a list of some of the larger electrical machines on the floor of the power laboratory:

Two 15 kw. Edison bipolar, shunt-wound generators;

One 30 kw. Westinghouse single-phase 133-cycle alternating current generator;

One 15 kw. General Electric Company's alternating-current generator specially arranged for single, two, three or six-phase connections;

One 20 h. p. "Lincoln" variable-speed direct-current motor;

One 30 h. p. Crocker-Wheeler Company's three-phase 220-volt induction motor;

One Westinghouse Electric & Mfg. Company's two-phase 220-volt induction motor;

One $7\frac{1}{2}$ kw., synchronous converter, and one six-phase synchronous converter;

A number of constant-potential transformers and one constant-current transformer;

Also several different types and sizes of direct-current motors.

One synchronous motor generator set, consisting of two similar units of $7\frac{1}{2}$ kw., six-phase, 110-volt, 60-cycle, revolving field machines, shaft coupled, and provided with mechanical phase adjustment;

One General Electric oscillograph with three moving elements for simultaneously taking photographs of three alternating currents;

One 7 kw. compound generator;

One 8 kw. split-pole synchronous converter;

Several transformers with special voltage ratios and numerous taps;

One mercury-arc rectifier;

A 65-cell Goulds storage battery;

Two 15 h. p. 220-volt direct-current interpole, variable-speed motors;

Additional instruments and meters.

This equipment will afford facilities for valuable advanced research.

The Mechanical Engineering Laboratories building, recently completed at a cost of \$118,000, is the largest and one of the finest in the university group. The building contains the class rooms, offices, and the following important laboratories of the Department of Mechanical Engineering:

The Power Laboratory, for experimental and research work in steam engineering, gas power engineering, refrigeration and hydraulics. Among the most important items of equipment in this laboratory may be mentioned: A 150 h. p. cross-compound, condensing Corliss engine, with appliances and apparatus for research work; a 20 and a 25 h. p. simple automatic engine; a 5, 15 and 40 h. p. simple throttling engine; two 20 h. p. steam turbines of different types; a 65 h. p. cross-compound, two-stage air compressor with Meyer valve gear; a 50 h. p. Buckeye tandem producer gas engine attached to a specially designed Smith suction gas producer, arranged to burn any kind of fuel; an 18 h. p. Mietz & Weiss oil engine; a 14 h. p. Jacobson automatic gas and gasoline engine; an 8 h. p. Springfield gas and gasoline engine; a ten ton York refrigerating machine, complete with freezing tank, etc., for the study of refrigeration and the manufacture of ice; a large duplex, direct acting steam pump; two surface condensing outfits; two three-stage turbine pumps, each direct-connected to a 50 h. p. variable speed, three-phase induction motor; a complete equipment of New York and Westinghouse air brakes; a large steel pressure tank with concrete weir tanks, weighing tanks, scales, etc., for

experimental work in hydraulics and the testing of hydraulic motors; together with a large assortment of indicators, dynamometers, etc.

The Fuel Testing Laboratory, containing a number of coal and gas calorimeters for determining the heating value of coal, gas and oil, and the necessary apparatus for testing lubricants and friction.

The Wood Working Laboratory, containing forty speed lathes and thirty-two work benches, with complete sets of tools, a pattern makers' lathe, combined cross-cut and rip buzz-saw, band saw, jig saw, planer, etc.

The Foundry Laboratory, containing two cupola furnaces, two brass furnaces, core ovens, a large traveling crane and all other necessary apparatus for foundry work.

The Forging Laboratory, containing thirty-five down draft forges, complete with tools, a large direct-connected motor driven blower and exhaust fan, a steam hammer, drill press, etc.

The Machine Tool Laboratory, containing fifteen screw cutting lathes, two speed lathes, a large planer, two shapers, two milling machines, a large horizontal boring mill, a large universal grinding machine, a universal cutter grinder, several drill presses, including a large radial drill, together with a variety of other tools, machines, and benches for machine tool and bench work in the metals.

The University Heating and Power Plant houses the University power and heating boilers, stokers and electrical generating plant of 400 kw. capacity. While primarily a "commercial" plant, the apparatus may be used occasionally by engineering students for testing.

The Agricultural Engineering buildings located on the campus of the University Farm contain class rooms, offices and the following laboratories:

The Carpentry Laboratory contains forty benches for exercise work and ample room for repair and construction work.

The Forging Laboratory contains thirty forges equipped with hand blowers and down draft smoke conduits, benches for repair work, drills, gears and other tools for general work.

The Farm Machinery Laboratory contains several thousand dollars worth of plows, cultivators, seeders, planters, harvesting machines, grinding and shelling machinery, pumps, etc.

The Farm Motor Laboratory contains a 36 h. p. traction boiler and engine, equipped with pyrometers, calorimeters, indicators, steam pumps,

injectors and Prony brake, whereby complete tests may be made. The laboratory also contains sectional steam and gas engines for illustrative work, a dozen or so stationary gas engines for testing and studying, and six traction engines for study and experimental work.

The Rural Architecture rooms are equipped with large, convenient individual locking drawing tables and benches and floors for concrete and masonry work.

The Automobile Laboratory is a section of the Farm Motor Laboratory and is always equipped with automobiles to be repaired and overhauled. Cases are filled with sectional carburetors, magnetos, engines, gears and starters which are adapted to instructional work.

Research Work—The laboratories of this department are especially equipped for research work in pumping systems, traction engine testing, lighting systems and farm machinery.

STUDENT ORGANIZATIONS

The Engineering Society—This society is a federation of the student organizations in the several branches of engineering. Its purpose is to counterbalance the segregating influence of the separate societies, to promote interest in the general field of engineering, and to give organized student support to the College of Engineering. The society issues semi-annually the *Blue Print*, a publication containing technical articles by students, alumni and faculty. The programs of the society consist of papers and discussions by students and faculty, and addresses by practicing engineers. The meetings are held monthly. The monthly meetings of the following component organizations fall on dates midway between the meetings of the Engineering Society:

The Student Branches of the American Institute of Electrical Engineers, The American Society of Mechanical Engineers and the American Society of Agricultural Engineers—These societies have been authorized by their respective national societies. The purpose of each is to develop in students an interest and facility in the particular branch of engineering concerned, and to open a clear avenue of approach to membership in the parent society for those who within a reasonable period of years qualify for such membership.

The Architectural Engineering Society and The Civil Engineering Society—These have been organized to afford to students of architecture and architectural engineering and to students of civil engineering, respec-

tively, the benefit of discussion within their own lines, and to enable them to participate in the affairs of the general engineering society.

Literary and Social. The Palladian and the Union are open University literary societies meeting weekly on Friday evenings in their rooms in the Temple. Membership in a number of other literary and social clubs is open to students in the College of Engineering.

Religious. The Young Men's Christian Association, a non-sectarian and voluntary organization of Christian men, members of the University, organizes and conducts Bible study among the students, holds public meetings, helps students to find suitable rooming and boarding places, gives free aid to students in search of employment, and publishes an annual Students' Handbook containing information especially valuable to new students. Inquiries should be addressed to the Secretary of the Young Men's Christian Association, Station A, Lincoln, Nebraska.

ADMISSION TO THE COLLEGE OF ENGINEERING

Entrance Credits. For admission to the Freshman class the candidate must present entrance "credits" equal to 30 "points,"¹ that is, a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 28 "points," or 140 hours, to candidates who are graduates of a secondary school accredited to the University. Candidates who are not graduates of a secondary school or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity. The degree will not be granted until such conditions are removed. Persons unable to meet the requirements for admission to the freshman class but who are able to qualify as "adult special" students may be admitted as such. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for a degree. All candidates for admission should forward their entrance credentials to the Registrar at least one month in advance of registration.

¹ A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week plus two double periods of laboratory work under the supervision of an instructor. The time element with each subject is essential.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

Required Subjects—	Points
English.....	4
History (European) <i>a</i>	2
Language (Foreign) <i>b</i>	6
Mathematics <i>c</i>	4
Science (Laboratory) <i>d</i>	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school.....	12
Total.....	30

- a* History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- b* Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- c* Mathematics: For entrance to College of Agriculture four points are required. Advanced algebra and solid geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering six points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- d* Science: It is recommended that Physics be offered in meeting the science requirement, except for the Architectural Group in the College of Engineering for which Chemistry must be offered.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the college as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a

good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Where possible, regular students must carry at least 12 hours of required work as scheduled under "Groups," or they become special, in which case their registration must be approved by the Committee on Unclassed Students.

Advanced Standing. Candidates from other universities, or from colleges whose requirements for admission and for graduation are equal to those of this University, are, on presenting to the Registrar certified statements of their standing therein, admitted to the same standing in this University; but such alien credit can, in no case, extend to more than three-fourths of the credits required for graduation from the University. Candidates from colleges whose requirements for admission and for graduation are not equal to those of this University or from institutions which do not require the candidate for graduation to complete a regularly organized four-year course in work of college rank, receive proportionally less credit. These must register in residence in the University for at least four semesters in order to become eligible to receive an undergraduate degree, unless, in instances where exceptional accomplishment and proficiency are shown, permission to complete the requirements for graduation in less time is given by the Committee on Advanced Standing of the college in which registration is sought. Such candidates may be given full credit for that part of their work found preparatory to specific courses in a subject which they wish to pursue in the University. They receive three-fourths credit for any other college work covered by the records which they present. In any instance a student shall complete in residence, in his senior year, at least thirty-one of the one hundred twenty-five hours required for graduation. In all cases not here specified, the candidate, to receive credit for previous work, is required to pass an examination.

Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

Entrance from Accredited Schools. The University maintains a list of "accredited" secondary schools whose graduates are admitted to the

University without entrance examination in duly certified subjects. The list of these accredited schools is given under "General Information Concerning the University," in the general catalog and also in the High School Manual published annually by the University and the State Department of Public Instruction.

Registration. Registration in the College of Engineering takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Chancellor, seeks to register outside of these days.¹ A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault; any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student may make such a change without written permission to the Registrar from the dean of each college concerned. No student is allowed to drop any study for which he has been regularly registered, except by written permission from the dean of his college. No regular student is allowed to register for less than twelve (12) hours nor for more than eighteen (18) hours a semester. A student cannot attend a class for which he is not registered, and no credit is granted for studies pursued without registration.

Advisers. Since the first year's work in the Engineering College is practically the same for all groups, any member of the Engineering faculty may act as adviser to freshmen. For the second and subsequent years a regular student's adviser is the head of the department most closely related to the group in which he is registered or some person delegated by that head to act for him. The adviser to unclassified students is the chairman of the Committee on unclassified Students. No schedule of subjects is valid for registration without the signature of the students adviser. The dean of the college acts as adviser for adult special students and as head adviser for all students within the college.

¹ Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage.

REQUIREMENTS FOR GRADUATION

Hours of Credit. In all of the four-year groups in the College of Engineering, 125 hours of University credit¹ are required for graduation. No student is recommended for graduation who is not within eighteen hours of this requirement at the beginning of his last semester.

Grades. Not more than 25 hours of the student's work below a grade of 70 per cent is credited on requirements for graduation.

Required Subjects. The subjects required for graduation from any one of the four-year engineering groups are given under the appropriate group heading on pages 25 to 35. Four hours of military science (courses 1, 2, 3, 4,) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed prohibits participation in warfare in any form (on the part of parent in case of a minor), are accepted as excusing from the requirements in military science. Unless excused or reprieved by the Chancellor, each undergraduate man must fulfill this requirement in his freshman and sophomore years. A reprieve does not abridge or otherwise modify a man's requirement in military science save to defer the period for discharging it. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Those excused for conscientious scruples are required to do work in physical education equivalent in amount. Thorough drill elsewhere than at the University may, as in case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

Special Examinations. The board of regents has made the following ruling: (1) No student has a right to demand a private examination. Such examinations are granted simply as favors, at the option of instructors. (2) No member of a class or section may, for any reason or under any pretext whatever, be privately examined at an earlier time than that set for his class or section. Any individual examination permitted must be held later. (3) To be examined at a time later than that set for his class or section, whatever the reason, a student must pay a special examination fee of \$1 a course. The student desiring an individual examination in any

¹ A course receives one hour of credit for each one hour recitation or lecture and two-hour preparation period it demands for each of the eighteen weeks for a semester. A laboratory course in engineering receives one hour credit for each three-hour period per week.

course first obtains his instructor's consent thereto, and then pays the Secretary the proper fee, taking a receipt. This receipt, being shown the instructor, authorizes him to proceed with the examination.

Student Rules and Regulations. Students in the College of Engineering are under the same University regulations as are the students of the other colleges of the University in regard to absence, delinquency, dismissal, student activities, and rooming. The most important of these rules are summarized in the first section of the annual general catalog of the University; a pamphlet containing the entire set of rules may be obtained from the Registrar.

FEES AND EXPENSES

Fees must be paid, upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instance the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. The following fees are required of students in the College of Engineering:

Matriculation (on first registration only).....	\$5.00
Being a statutory one, this fee cannot be refunded except when collected in error. It is also charged any student changing membership from one college to another.	
Non-resident tuition (charged persons not residents of the State of Nebraska), each semester.....	15.00
Incidental, each semester.....	3.00
Library (if no laboratory fees are paid).....	1.00
Diploma fee.....	5.00
If degree is taken in absentia, \$10.00 additional.	
Special registration (late registration or re-registration).....	3.00
Special examination.....	1.00

LABORATORY FEES

Agricultural Engineering—Courses 1, 2, 4, 11, \$3; 3, 5, 6, 17, \$1; 18, 20, \$2; 9, 10, \$4; 13, \$8.	
Applied Mechanics—Courses 15, 18, \$4; 17, 20, \$3; 25a, 25b, \$5.	
Chemistry—Courses A, B, 1, 2, 21, 34, 3a, Da, \$5; 5, 15, 16, 23, 27, 41, \$2; D, 1 and 2 combined, 3, \$10; 7, 8, 22, 23a, 39, 40, for each credit hour a semester, \$1; 14, \$8; 20, \$4.	

Civil Engineering—Courses 5a, 6a, 8, 30, \$3.

Electrical Engineering—Courses 8, 8a, 9, 10, \$5; 9a, 10a, \$2.

Mechanical Engineering—Courses 2a, 3a, 18, \$2; 2, \$4; 3, 4, 15, \$5; 15, 16, 17, \$6.

Physics—Courses 1, 2, 3, 4, 6, \$4.

These fees do not cover careless waste, breakage, or injury to apparatus. In any such case the student is required, upon notice by the department concerned, to pay the amount of such waste or damage at the Secretary's office, and to present his receipt therefor to the department before his semestral credit is reported to the Registrar.

Expenses. The average cost of a year's attendance at the University (not including fees of any kind) is about \$300. Many students reduce this amount. Board and lodging may be had among families of the city. In September the Young Men's Christian Association and the Young Women's Christian Association make, under the direction of the Registrar, a canvass of the city and keep on file lists of rooms and boarding places. The Young Men's Christian Association maintains an employment bureau. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the University do not, however, undertake to find employment for students. A student is advised not to enter the University unless he can count upon resources for one semester—at least \$150.

STUDENT LOAN FUND

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. Mr. Webster's donation applies to all students in the University, while the donations of Dr. Waddell and Mr. Whitmore are limited to students in the Engineering College. Mrs. Ida C. Carter, of New York, has arranged to give a fund of \$500, to be known as the A. E. Carter Loan Fund, in honor of her husband, who was a graduate of the College of Engineering. This fund is available for students of that College only. The interest received from the loaning of this money goes to increase the fund. Application blanks and the full rules for administration may be obtained at the office of the Secretary. Loans will be made only to students in need of assistance, who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The

moral character of the applicant, his habits of temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or withdraws from the University.

GROUPS OF STUDIES AND DEGREES

The College of Engineering offers four-year groups of study in Architectural, Agricultural, Civil, Electrical and Mechanical Engineering, leading to the degree of Bachelor of Science in Architectural, Agricultural, Civil, Electrical or Mechanical Engineering respectively, and a six-year combined Academic and Engineering group leading to the degree of Bachelor of Arts at the end of the fourth or fifth year and that of Bachelor of Science in one of the engineering groups at the end of the sixth year. In all of the four-year groups 125 "credit hours" are required for graduation.

Architecture. In response to a growing demand the College of Engineering, in connection with the School of Fine Arts, has formulated a four-year Architectural Group of studies, leading to the degree of Bachelor of Science in Architecture. The requirements for entrance to this group are the same as for the other groups of the College of Engineering, except that Chemistry, one year, five hours a week, two points, must be offered to meet the Science requirement for students of Architecture. It is also urgently recommended that students intending to register in the Architectural Group offer either French or German in discharge of the language requirement for entrance.

The work of the first and second years is offered complete at this time. The work of the third and fourth years can be given in part.

The subjects of the Architectural Group are arranged in such a sequence that practical knowledge will be gained and can be used early, instead of spending all of the time of the first and second years on subjects which are merely preparatory to the truly architectural studies. At the same time, effort has been made to so design the group that those who intend to perfect themselves as architects of the highest grade will find the work to be suitable as a preparation for the more advanced work in older institutions where courses in architecture have matured.

Architectural Engineering. The Architectural Engineering Group is distinguished from the Architectural Group in that it is designed to train men to undertake the engineering design of buildings, including particularly

the foundations and the frame work, columns and floors. Men trained in this line will naturally find their occupation chiefly in connection with large and important buildings. In Architectural Engineering relatively little attention is paid to the aesthetic side of design. In Architecture, on the other hand, while an elementary training in the mechanics of materials is given, the advanced work along this line is supplanted by an extended training in architecture as an art.

Agricultural Engineering. The courses in Agricultural Engineering are designed to qualify men to become teachers of the subject, managers of large farms, ranches, plantations, estates, etc., to do the general engineering work of rural communities, or to enter the wider field of commercial and professional engineering. Farm machinery, farm motors, rural architecture, drainage, sewage disposal, water systems, etc., are treated in a comprehensive manner.

Civil Engineering. The courses in Civil Engineering deal with the subjects of railroad engineering, hydraulic engineering, irrigation, water supply, sewerage, structural design, masonry construction, etc. *Mining Engineering.* Students expecting to become Mining Engineers will be advised as to substitutions and electives which will facilitate entrance with advanced standing to a school of mines.

Electrical Engineering. The courses in Electrical Engineering include the theory and design of electrical machinery and the industrial applications of electricity to the transmission of power, lighting, street railways, and electro-metallurgy.

Mechanical Engineering. The courses in mechanical engineering deal with problems relating to combustion and the analysis of fuels, the generation and transmission of power, and the design, construction, operation and testing of machinery of all kinds.

Six-Year Combined Academic-Engineering Course. It has been found that all the requirements of both the academic and the engineering courses may be easily met in six years, the degree of Bachelor of Arts being taken at the end of the fourth or fifth year and that of Bachelor of Science in one of the Engineering groups at the end of the sixth.

GRADUATE WORK IN ENGINEERING

Graduate work in engineering may be taken by any student who has had preparation in mathematics and science equivalent to that required of undergraduates in engineering, but candidates for the advanced degrees in engineering must, in addition, possess technical preparation equivalent to that required in the undergraduate courses. Graduate work consists of special laboratory investigations, of advanced engineering design or of the collection and reduction of existing data relating to some specific engineering topic. So far as possible such work is arranged to suit the needs of the individual student.

For one full year of resident graduate work with an acceptable thesis covering some phase of the work undertaken, there will be granted the degree of Master of Science in Agricultural, Civil, Electrical or Mechanical Engineering, depending upon the particular line of work pursued.

For three full years of resident graduate work in Engineering there will be granted upon the presentation and publication of a suitable thesis the degree of Doctor of Philosophy.

The degrees of Agricultural Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon graduates of the University of Nebraska of not less than five years' standing, who have previously received the degree of B. Sc. in Engineering, and who have been in responsible charge of work and done meritorious service in the practice of their professions. At the time of registering for such degree the candidate will present a detailed statement of his preparation, work and experience together with an acceptable topic for a thesis. Not less than one year thereafter, during which time he shall have studied and worked under the general supervision of the head of the department in which he expects to take his degree, he shall submit his thesis and present himself for examination in the work done under the supervision mentioned above. If the thesis and examination prove satisfactory he will be recommended for the degree. In no case will a professional degree be conferred in absentia. The rules of the Graduate College apply to all graduate work and students taking the same must matriculate in that college.

ORDER OF COURSES IN FOUR-YEAR ARCHITECTURAL GROUP

FIRST YEAR	First	Second
	Semester Hours	Semester Hours
Mathematics 1, 2	5	5
Applied Mechanics (Elements of Architecture) 1a	3	
Applied Mechanics (Descriptive Geometry, Shades and Shadows, Perspective) 2		3
Freehand Drawing	2	2
Architecture 1, 2	3	3
History of Architecture and Ornament	2	2
Drill 1, 2	1	1
	16	16
SECOND YEAR		
Mathematics 3, 4	5	5
Applied Mechanics (Building Materials and Specifications) 27a and 28a	3	3
Water Color, Pen Drawing, Modeling	2	2
Architecture 3, 4	3	3
History of Architecture and Ornament	2	2
Drill 3, 4	1	1
	16	16
THIRD YEAR		
Applied Mechanics 14a and 22	3	3
Rhetoric 1, 2	2	2
Drawing (Charcoal)	2	2
History of Architecture and Ornament	2	2
Architecture 5, 6	5	5
Theory of Architecture	2	2
	16	16
FOURTH YEAR		
Civil Engineering (Structures)	3	
Electrical Engineering (Wiring and Illumination)		2
Mechanical Engineering (Heating and Ventilating)	2	
Engineering Law		2
Architecture 7, 8	10	10
	15	14

Following are descriptions of the courses of the first and second years, which are not described fully elsewhere in the catalog of the College of Engineering:

Elements in Architecture (Applied Mechanics 1a)—An elementary course in mechanical drawing, parallel to and co-ordinate with Applied Mechanics 1, but substituting architectural forms and orders of architecture for mechanical forms. One hour attendance. Eight hours drawing. Three hours credit. First semester of first year. Rasmusen

Freehand Drawing—A course in freehand drawing of architectural forms and ornament. Six hours drawing. Two hours credit each semester. First and second semesters of first year. Hayden

Architecture 1 and 2—Architectural rendering; wash drawings of assigned subjects, such as orders, frontis-pieces, and the like. Careful measured drawings and renderings of actual buildings; simple problems in design, such as windows and doorways. Nine hours drawing. Three hours credit each semester. First and second semesters of first year. Davis

History of Architecture and Ornament—An illustrated lecture course covering the historical styles of architecture and the ornament peculiar to each style. The student is familiarized with the greatest monuments of architecture. This subject extends through the first three years of the group. Four hours attendance. Two hours preparation. Two hours credit each semester. Dann

Freehand Drawing—A course in water color and pen-and-ink rendering, and in wax modeling from the cast. Six hours attendance. Two hours credit each semester. First and second semesters of second year. Hayden

Building Materials and Specifications (Applied Mechanics 27a and 28a)—A course in the materials and methods of building construction, and in specification writing. Cement, stone, brick, terra cotta, iron, steel, wood, plumbing supplies, etc., are considered as regards manufacture and their application to building uses. Three hours attendance. Six hours preparation. Three hours credit each semester. First and second semesters of second year. Slaymaker

Architecture 3 and 4—A continuation of the courses of the first year. Elementary problems in planning, design and rendering, and in the study of the orders, conducted on competitive lines. Nine hours drawing. Three hours credit each semester. First and second semesters of second year. Davis

ORDER OF COURSES IN FOUR-YEAR ENGINEERING GROUPS

To avoid conflict in the time schedules of students and to secure the proper sequence in studies, it is necessary that the engineering courses be taken in the following prescribed order. *In no case should this order be departed from without consultation with the head of the engineering department chiefly concerned.* (See also "Adult Special Students.")

FIRST YEAR OF ALL FOUR-YEAR ENGINEERING GROUPS

	Credit Hours
FIRST SEMESTER	
Mathematics (Algebra and Plane Trigonometry) 1.....	5
Physics (Mechanics of Solids and Fluids) 1.....	3
Rhetoric and English Composition 1.....	2
Applied Mechanics (Mechanical Drawing) 1.....	3
¹ Mechanical Engineering (Elementary Wood Work) 1.....	3
Military Drill 1.....	1
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SECOND SEMESTER

Mathematics (Analytical Geometry and Calculus) 2.....	5
Physics (Heat and Sound) 2.....	3
Rhetoric and English Composition 2.....	2
Applied Mechanics (Descriptive Geometry) 2.....	3
¹ Mechanical Engineering (Pattern-making, Foundry Work) 2, 2a.....	3
Military Drill 2.....	1
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AGRICULTURAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Chemistry (Qualitative Analysis) 1.....	2
Physics (Electricity) 3.....	2
Applied Mechanics (Mechanism) 3.....	3
Agricultural Engineering (Farm Machinery) 1.....	2
Military Drill 3.....	1
	<hr/> 15

¹ In the Agricultural Engineering group, Agricultural Engineering 9 is taken in place of Mechanical Engineering 1, and Agricultural Engineering 10 in place of Mechanical Engineering 2 and 2a.

Credit
Hours

SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4	5
Chemistry (Qualitative Analysis) 2	2
Agricultural Engineering (Elementary Farm Motors) 2	2
Applied Mechanics (Theoretical and Applied) 14	3
Civil Engineering (Surveying) 5	2
Civil Engineering (Surveying Field Work) 5a	2
Military Drill 4	1

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THIRD YEAR—FIRST SEMESTER

Agricultural Engineering (Rural Architecture) 3	3
Agronomy (Soils) 7	4
Animal Husbandry (Management of the Herd) 11	2
Mechanical Engineering (Steam Engineering) 10	4
Civil Engineering (Road, Streets and Pavements) 21	2

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THIRD YEAR—SECOND SEMESTER

Agricultural Engineering (Farm Drainage and Rural Highways) 4	3
Dairy Husbandry (General Dairying)	2
Mechanical Engineering (Laboratory) 16	3
Civil Engineering (Hydraulics) 11	2
Civil Engineering (Elementary Structural Design) 18	2

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FOURTH YEAR—FIRST SEMESTER

Geology (Engineering Geology) 25	2
Agricultural Engineering (Advanced Farm Machinery) 11	2
Applied Mechanics (Testing Road Materials) 25	2
Political Economy or History	2
Agricultural Engineering (Domestic Engineering) 15	3
Electrical Engineering (Electric Power) 3	2
Farm Management 3	3

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	Credit Hours
FOURTH YEAR—SECOND SEMESTER	
Agricultural Engineering (Advanced Farm Motors) 12	2
Civil Engineering (Irrigation Engineering) 12	3
Political Economy or History	2
Agricultural Engineering (Domestic Engineering Lab.) 16	2
Electrical Engineering (Laboratory) 8a	2
Thesis or Electives	5
	16

ARCHITECTURAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER	
Mathematics (Analytical Geometry and Calculus) 3	5
Physics (Electricity) 3	2
Civil Engineering (Surveying) 5	2
Civil Engineering (Field Work) 5a	2
Chemistry (Qualitative Analysis) 1	2
Fine Arts (Charcoal and Pencil)	1
Applied Mechanics (Applied Descriptive Geometry) 23	2
Military Drill 3	1
	17

SECOND YEAR—SECOND SEMESTER	
Mathematics (Calculus) 4	5
Chemistry (Qualitative Analysis) 2	2
Physics (Electricity and Light) 4	2
Applied Mechanics (Theoretical and Applied) 14	3
Political Economy 1	3
Fine Arts (Pen and Ink)	1
Military Drill 4	1
	17

THIRD YEAR—FIRST SEMESTER	
Fine Arts (Cathedral Architecture) 9	2
Applied Mechanics (Mechanics of Materials) 15	3
Mechanical Engineering (Steam Engineering) 10	4
Applied Mechanics (Specifications and Working Drawings) 27	4
Electrical Engineering (Electric Power) 3	2
	15

Credit
Hours

THIRD YEAR—SECOND SEMESTER

Fine Arts (Modern Architecture) 10.....	2
Electrical Engineering (Laboratory) 8a.....	2
Applied Mechanics (Specifications and Working Drawings) 28.....	4
Civil Engineering (Hydraulics) 11.....	2
Civil Engineering (Stresses in Framed Structures) 16.....	4
	—
	14

FOURTH YEAR—FIRST SEMESTER

Applied Mechanics (Cement and Concrete Testing) 17.....	2
Mechanical Engineering (Heating and Ventilation of Buildings) 19.....	2
Mechanical Engineering (Steam Boilers) 11.....	2
Civil Engineering (Design of Framed Structures) 15.....	3
Civil Engineering (Reinforced Concrete) 17.....	3
Electrical Engineering (Electric Lighting) 17.....	2
	—
	14

FOURTH YEAR—SECOND SEMESTER

Chemistry (Technical and Metallurgical) 23.....	2
Applied Mechanics (Materials of Construction) 18.....	2
Civil Engineering (Masonry Construction) 22.....	4
Mechanical Engineering (Building Sanitation) 14.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Elective.....	1
	—
	14

CIVIL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Civil Engineering (Surveying) 5.....	2
Civil Engineering (Surveying Field Work) 5a.....	2
Military Drill 3.....	1
	—
	17

	Credit Hours
SECOND YEAR—SECOND SEMESTER	
Mathematics (Calculus) 4.....	5
Physics (Electricity and Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Civil Engineering (Surveying) 6.....	2
Civil Engineering (Surveying Field Work) 6a.....	2
Military Drill 4.....	1

17

THIRD YEAR—FIRST SEMESTER

Electrical Engineering (Electric Power) 3.....	2
Applied Mechanics (Mechanics of Materials) 15.....	3
Applied Mechanics (Cement and Concrete Testing) 17.....	2
Civil Engineering (Hydraulics) 11.....	2
Chemistry (Technical and Metallurgical) 23.....	2
Electives.....	5

16

THIRD YEAR—SECOND SEMESTER

Civil Engineering (Masonry Construction) 22.....	4
Civil Engineering (Framed Structures) 16.....	4
Applied Mechanics (Materials of Construction) 18.....	2
Electrical Engineering (Laboratory) 8a.....	2
Mechanical Engineering (Steam Engineering) 10.....	4

16

FOURTH YEAR—FIRST SEMESTER

Civil Engineering (Design of Framed Structures) 15.....	3
¹ Mechanical Engineering (Power Laboratory) 16, or electives.....	3
Civil Engineering (Engineering Economics) 25.....	2
Romance Language (Spanish) 31, or approved electives.....	5

13

¹ Mechanical Engineering 16 and 18 in the Civil Engineering group are alternatives, one of which must be taken. The other may be replaced by electives.

Credit
Hours

FOURTH YEAR—SECOND SEMESTER

Civil Engineering (Advanced Theory of Structures) 20, or	3
Civil Engineering (Hydraulic Engineering) 24, or	(3)
Civil Engineering (Railway Location) 10	(3)
Civil Engineering (Engineering Economics) 26	2
Romance Language (Spanish) 32, or approved electives	5
¹ Mechanical Engineering (Experimental Hydraulics) 18 or Electives	2

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12

ELECTRICAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER

Mathematics (Analytical Geometry and Calculus) 3	5
Physics (Electricity) 3	2
Chemistry (Qualitative Analysis) 1	2
Applied Mechanics (Mechanism) 3	3
Mechanical Engineering (Forge Work) 3 or (Machine Work) 4	2
Military Drill 3	1

—
15

SECOND YEAR—SECOND SEMESTER

Mathematics (Calculus) 4	5
Physics (Electricity and Light) 4	2
Chemistry (Qualitative Analysis) 2	2
Applied Mechanics (Theoretical and Applied) 14	3
Physics (Problems in Electricity) 5	2
Military Drill 4	1

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15

THIRD YEAR—FIRST SEMESTER

Applied Mechanics (Machine Design) 5	3
Electrical Engineering (Dynamios) 1	5
Physics (Electrical Measurements) 6	3
Civil Engineering (Surveying) 5	2
Civil Engineering (Surveying Field Work) 5a	2

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15

¹ See foot-note on page 295.

	Credit Hours
THIRD YEAR—SECOND SEMESTER	
Applied Mechanics (Mechanics of Materials) 15.....	3
Electrical Engineering (Dynamos) 2.....	3
Chemistry (Technical) 23.....	2
Electrical Engineering (Electrical Laboratory) 8.....	2
Mechanical Engineering (Power Laboratory) 16.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
	—
	17

FOURTH YEAR—FIRST SEMESTER	
Electrical Engineering (Laboratory) 9.....	2
Electrical Engineering (Alternating Currents) 5.....	5
Electrical Engineering (Technical Reports) 15.....	1
Civil Engineering (Hydraulics) 11 or Electives.....	2
¹ Electives.....	5
	—
	15

FOURTH YEAR—SECOND SEMESTER	
Electrical Engineering (Alternating Currents) 6.....	3
Electrical Engineering (Laboratory) 10.....	2
¹ Electives.....	9
	—
	14

MECHANICAL ENGINEERING GROUP

SECOND YEAR—FIRST SEMESTER	
Mathematics (Analytical Geometry and Calculus) 3.....	5
Physics (Electricity) 3.....	2
Chemistry (Qualitative Analysis) 1.....	2
Applied Mechanics (Mechanism) 3.....	3
Mechanical Engineering (Forge Work) 3.....	2
Mechanical Engineering (Advanced Foundry Work) 3a.....	1
Military Drill 3.....	1
	—
	16

¹ Of the electives, at least 8 hours must be taken from those offered by the Electrical Engineering department.

THE UNIVERSITY OF NEBRASKA

	Credit Hours
SECOND YEAR—SECOND SEMESTER	
Mathematics (Calculus) 4.....	5
Physics (Electricity and Light) 4.....	2
Chemistry (Qualitative Analysis) 2.....	2
Applied Mechanics (Theoretical and Applied) 14.....	3
Mechanical Engineering (Machine Tool Work) 4.....	2
Military Drill 4.....	1
	—
	15
THIRD YEAR—FIRST SEMESTER	
Applied Mechanics (Machine Design) 5.....	3
Applied Mechanics (Mechanics of Materials) 15.....	3
Civil Engineering (Hydraulics) 11.....	2
Electrical Engineering (Electric Power) 3.....	2
Mechanical Engineering (Fuel Testing Laboratory) 15.....	2
Mechanical Engineering (Machine Construction) 5.....	3
	—
	15
THIRD YEAR—SECOND SEMESTER	
Applied Mechanics (Machine Design) 6.....	3
Mechanical Engineering (Steam Engineering) 10.....	4
Mechanical Engineering (Power Laboratory) 16.....	3
Chemistry (Technical) 23.....	2
Electrical Engineering (Electric Power) 4.....	2
Civil Engineering (Elementary Structural Design) 18.....	2
	—
	16
FOURTH YEAR—FIRST SEMESTER	
Mechanical Engineering (Steam Boilers) 11.....	2
Mechanical Engineering (Heating and Ventilation) 19 or approved elective.....	2
Mechanical Engineering (Hydraulic Motors) 31.....	3
Mechanical Engineering (Thermodynamics) 13.....	3
Mechanical Engineering (Power Laboratory) 17.....	3
Electives.....	2
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	15

FOURTH YEAR—SECOND SEMESTER		Credit Hours
Mechanical Engineering (Gas Engineering) 22 or approved elective	3	
Mechanical Engineering (Power Plant Design) 20	2	
Mechanical Engineering (Power Transmission) 24	2	
Electrical Engineering (Laboratory) 8a	2	
Thesis, Electives	5	
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		14

ORDER OF COURSES IN SIX-YEAR COMBINED ACADEMIC-ENGINEERING COURSE

FIRST YEAR	Semester	
	1st	2d
Mathematics (Algebra and Plane Trigonometry, Analytical Geometry and Calculus) 1, 2.....	5	5
The Classics or Modern Language.....	5	5
Rhetoric and English Composition 1, 2.....	2	2
Applied Mechanics (Mechanical Drawing, Descriptive Geometry) 1, 2.....	3	3
Applied Mechanics (Free-Hand Drawing, Applied Descriptive Geometry) 24, 23.....	1	1
Military Drill 1, 2.....	1	1
	<hr/>	<hr/>
	17	17

SECOND YEAR

Mathematics (Analytical Geometry, Calculus) 3, 4.....	5	5
Modern Language or English.....	5	5
Physics (Mechanics, Heat and Sound) 1, 2.....	3	3
¹ Mechanical Engineering (Wood, Pattern and Foundry Work) 1, 2, 2a.....	3	3
Military Drill 3, 4.....	1	1
	<hr/>	<hr/>
	17	17

THIRD YEAR

Applied Mechanics (Mechanism, Analytical Mechanics) 3, 14.....	3	3
History.....	3	3
Biology.....	3	3
Chemistry (Qualitative Analysis) 1, 2.....	2	2
Physics (Electricity, Magnetism and Light) 3, 4.....	2	2
Electives.....	3	3
	<hr/>	<hr/>
	16	16

¹ In the Agricultural Engineering Group, Agricultural Engineering 9 and 10 are substituted for Mechanical Engineering 1, 2 and 2a.

FOURTH YEAR

AGRICULTURAL ENGINEERING

First Semester—Agronomy 7, 4 hours; Ag. Eng. 1, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; Eng. Geology 25, 2 hrs.; Civil Eng. 5, 5a, 4 hrs. 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; Ag. Eng. 2, 2 hrs.; Mech. Eng. 10, 4 hrs.; Dairy Hus. 2, 4 hrs.; elective, 2 hrs. ... 15

CIVIL ENGINEERING

First Semester—Chem. 23, 2 hrs.; Civil Eng. 5, 5a, 4 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 3, 3a, 3 hrs. ... 15

Second Semester—Civil Eng. 6, 6a, 4 hrs.; Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 18, 2 hrs.; Mech. Eng. 4, 10, 6 hrs. 15

¹ ELECTRICAL ENGINEERING

First Semester—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr. ... 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; Civil Eng. 11, 2 hrs.; Mech. Eng. 4, 10, 6 hrs.; Physics 5, 2 hrs.; elective, 2 hrs. ... 15

MECHANICAL ENGINEERING

First Semester—Chem. 23, 2 hrs.; Eng. Lit. 1 or Rhet. 5, 3 hrs.; App. Mech. 5, 15, 6 hrs.; Mech. Eng. 3, 3a, 3 hrs.; elective, 1 hr. ... 15

Second Semester—Eng. Lit. 2 or Rhet. 6, 3 hrs.; App. Mech. 6, 3 hrs.; Mech. Eng. 4, 10, 6 hrs.; elective, 3 hrs. 15

FIFTH YEAR

AGRICULTURAL ENGINEERING

First Semester—Ag. Eng. 3, 11, 5 hrs.; Agronomy 3, 2 hrs.; Civil Eng. 11, 2 hrs.; American History 9 or Geography 1, 2 hrs.; App. Mech. 17, 2 hrs.; Elect. Eng. 3, 2 hrs. 15

Second Semester—Ag. Eng. 12, 14, 4 hrs.; Mech. Eng. 16, 3 hrs.; Elect. Eng. 4, 8, 4 hrs.; American History 10 or Geography 2, 2 hrs.; Horticulture 6, 2 hrs. 15

CIVIL ENGINEERING

First Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; App. Mech. 17, 2 hrs.; Civil Eng. 11, 17, 5 hrs.; elective, 3 hrs. 15

Second Semester—Philosophy or Economics, 3 hrs.; Elect. Eng. 8a, 2 hrs.; Civil Eng. 16, 22, 8 hrs.; Mech. Eng. 18, 2 hrs. 15

¹Of the electives in the Electrical Engineering group, at least eight must be taken from the courses offered by the Electrical Engineering department.

ELECTRICAL ENGINEERING

- First Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 1, 5 hrs.; Physics 6, 3 hrs.; Civil Eng. 5, 5a, 4 hrs. 15
- Second Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 2, 8, 5 hrs.; Mech. Eng. 16, 3 hrs.; elective, 4 hrs. 15

MECHANICAL ENGINEERING

- First Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 3, 2 hrs.; Civil Eng. 11, 2 hrs.; Mech. Eng. 5, 11, 7 hrs.; elective, 1 hr. 15
- Second Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 4, 2 hrs.; Mech. Eng. 16, 22, 24, 8 hrs.; elective, 2 hrs. 15

SIXTH YEAR

AGRICULTURAL ENGINEERING

- First Semester**—Philosophy or Economics, 3 hrs.; Ag. Eng. 15, 2 hrs.; App. Mech. 15, 3 hrs.; Mech. Eng. 31, 3 hrs.; Thesis or electives, 3 hrs. 14
- Second Semester**—Philosophy or Economics, 3 hrs.; Ag. Eng. 4, 16, 5 hrs.; Civil Eng. 12, 3 hrs.; Thesis or elective, 3 hrs. 14

CIVIL ENGINEERING

- First Semester**—Civil Eng. 15, 25, 5 hrs.; Mech. Eng. 16, 3 hrs.; Rom. Lang. 31, or elective, 5 hrs.; elective, 1 hr. 14
- Second Semester**—Civil Eng. 10, or Civil Eng. 20, or Civil Eng. 24, 3 hrs.; Civil Eng. 26, 2 hrs.; Rom. Lang. 32, or elective, 5 hrs.; Thesis or elective, 4 hrs. 14

ELECTRICAL ENGINEERING

- First Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 5, -9, 15, 8 hrs.; elective, 3 hrs. 14
- Second Semester**—Philosophy or Economics, 3 hrs.; Elect. Eng. 6, 10, 5 hrs.; elective, 6 hrs. 14

MECHANICAL ENGINEERING

- First Semester**—Philosophy or Economics, 3 hrs.; Mech. Eng. 13, 17, 19, 31, 11 hrs. 14
- Second Semester**—Philosophy or Economics, 3 hrs.; Mech. Eng. 20, 2 hrs.; Elect. Eng. 8, 2 hrs.; Thesis or elective, 4 hrs.; elective, 3 hrs. 14

Total number of hours required for each six-year group 188

COURSES OF INSTRUCTION

AGRICULTURAL ENGINEERING

Professor Chase (*Head of Department*), Assistant Professor Seaton, Assistant Professor Baer, Assistant Professor Brackett, Mr. Wood, Mr. Moore

PRIMARILY FOR UNDERGRADUATES

1. **Farm Machinery**—The practical study of all lines of agricultural implements, tillage, seeding, harvesting, threshing, and fertilizing machinery. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. First semester. Chase, Seaton

2. **Farm Motors**—The practical study of farm motors, the horse, wind-mill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. Prerequisite: Mathematics 1, Physics 1 and 2. One hour attendance. One hour preparation. Four hours laboratory. Two hours credit. Second semester. Chase, Seaton

9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construction. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit. Baer,———

10. **Forge Work**—Practice in forging, welding, tempering, pipe fitting babbitting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit. Moore

FOR UNDERGRADUATES AND GRADUATES

3. **Rural Architecture**—Design and arrangement of farm buildings and equipment, laying out of fields with respect to farmstead. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester. Wood

4. **Farm Drainage and Rural Highways**—Field and class work in land drainage, laying out of drainage systems, practical work in cement tile making, studies in drainage law, organization of districts and computation of cost estimates. The second half of the semester is devoted to a study of Nebraska roads and road laws, road construction, and maintenance. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester. Wood

7. Research Work in Rural Architecture, Farm Drainage and Rural Highways—There is a broad field for original investigation in the following subjects: Drainage, water supplies, lighting, heating, building materials, efficiency gained by proper arrangement of farm buildings, road construction and sewerage. Prerequisite: Courses 3 and 4. Six to fifteen hours laboratory or reading. Two to five hours credit. Wood

8. Research Work in Farm Machinery, Farm Motors and Farm Equipment—The large equipment of machinery in the department gives an excellent opportunity for testing both in the laboratory and in the field, standardizing, traction tests, calibration and economic tests of both farm machinery and farm motors. Prerequisite: Courses 1 and 2. Six to fifteen hours laboratory or reading. Two to five hours credit. Chase, Seaton

11. Advanced Farm Machinery—Laboratory work in the testing of field machines under various conditions. The testing of grinders, shellers, twine, etc. Prerequisite: Course 1. Six hours laboratory. Two hours credit. First semester. Seaton

12. Advanced Farm Motors—Complete tests of farm motors, both in the field and laboratory. Prerequisite: Course 2. Mechanical Engineering 10, and in connection with Mechanical Engineering 16. Six hours laboratory. Two hours credit. Seaton

13. Automobiles, Theory and Practice—A study of automobiles and motor truck engines, ignition systems, carburetors, transmissions and differentials and the care and use of such machines. Two hours recitation. Four hours preparation. Three hours laboratory. Three hours credit. First and second semesters. Seaton

15. Domestic Engineering—Studies in illumination and illuminating materials, freezing and heating materials, ventilating systems, water systems, sewerage and sewage disposal. Prerequisite: Physics 1 and 2, Chemistry 1 and 2. Six hours preparation. Three hours credit. Chase

16. Domestic Engineering Laboratory—Practice in plumbing, testing of fuels, heating systems, illuminating systems, ventilating systems, pumping systems, etc. Prerequisite: Course 15. Six hours laboratory. Two hours credit. Chase

APPLIED MECHANICS AND MACHINE DESIGN

Professor Chatburn (*Head of Department*), Professor Slaymaker, Associate Professor Rasmusen, Assistant Professor Mickey

PRIMARILY FOR UNDERGRADUATES

1. **Mechanical Drawing**—One hour attendance and eight hours drawing a week in lettering, free-hand sketching, geometrical construction and projection; working drawings of machine parts. Three hours credit. First semester. Rasmusen

1a. **Elements in Architecture**—Course 1 modified for students in Architecture. Same periods and same credit as Course 1. Rasmusen

2. **Descriptive Geometry**—One hour attendance and six hours drawing a week, comprising, (1) text-book work on the solution of problems relating to geometrical magnitudes in space and their representations by drawings; (2) application of principles to working drawings. Prerequisite: Course 1 or experience in drawing. Two hours preparation. Three hours credit. Second semester. Rasmusen

3. **Mechanism**—Two class-room periods and three hours drawing a week. Motions and forms of various mechanisms occurring in machines, manner of supporting and guiding the parts, independent of strength, and the design of gear teeth. Prerequisite: Courses 1 and 2. Four hours preparation. Three hours credit. First semester. Slaymaker

9. **A Short Course in Mechanical Drawing**—Designed for students in Forestry. Free-hand lettering, the use of instruments and curve tracing, preparatory to map making. Six hours attendance and drawing. Two hours credit. First semester. Rasmusen

20. **Timber Physics**—An elementary course in applied mechanics with especial reference to the physical properties of timber. Illustrated in the laboratory by the testing and study of the strength of various timbers in tension, compression, cross-bending, shear, etc. For students in forestry. Prerequisite: Mathematics 1, Physics 1, and Botany 34. One hour attendance. One hour laboratory. Two hours preparation. Two hours credit. Second semester. Chatburn, Mickey

FOR UNDERGRADUATES AND GRADUATES

5. **Machine Design**—Elementary design of shafting and shaft couplings, pulleys and fly-wheel, power-screws, bearings and guides. Nine hours

attendance and drawing. Prerequisite: Courses 1, 2, 3 and 14. Three hours credit. First semester.

Slaymaker

6. **Machine Design**—Each student makes a number of complete designs, studies constructive details, makes calculations to determine strength of parts and estimates cost. Nine hours attendance and drawing. Prerequisite: Courses 1, 2, 3, and 5. Three hours credit. Second semester.

Slaymaker

8. **Steam Engine Design**—Working from an assumed indicator card, each student designs the principal dimensions of a high-speed automatic cut-off engine and the details of assigned parts. Reports upon each particular design. Six hours drawing a week. Prerequisite: Courses 1, 2, 3 and 5. Two hours credit. Second semester.

Slaymaker

13. **Stereotomy**—Drawing and laboratory. Six hours drawing. Two hours credit. First and second semesters.

Chatburn

14. **Theoretical and Applied Mechanics**—Principles of kinematics statics and kinetics. Prerequisite: Mathematics 3. Three hours attendance. Six hours preparation. Three hours credit. First and second semesters.

Chatburn, Mickey

14a. **Theoretical and Applied Mechanics**—Course 14 modified to include an abbreviated course in mechanics of materials, with illustrative lectures in laboratory. For students in Architectural Group. Prerequisite Mathematics 4. Three hours attendance. Six hours preparation. Three hours credit. First semester.

Chatburn, Mickey

15. **Mechanics of Materials**—Resistance of materials, and mechanics of beams, columns, shafts, etc.; laboratory experiments. Prerequisite: Course 14. Two hours attendance. Three hours laboratory. Four hours preparation. Three hours credit. First and second semesters.

Chatburn, Mickey

17. **Cement and Concrete Testing**—Classification, composition, manufacture, inspection, sampling and specifications. Practical testing of cement, mortars, concretes, and other materials of construction. Prerequisite: Course 14. One hour attendance. Three hours laboratory. Two hours preparation. Two hours credit. First and second semesters.

Mickey

18. **Materials of Construction**—Manufacture and general properties. Mechanical properties of materials as revealed by actual tests. Comparison of tests reported by other laboratories. Continuation of tests begun in

course 17. One hour attendance. Three hours laboratory. Two hours preparation. Two hours credit. Second semester. Chatburn, Mickey

22. **Graphic Statics**—Elements of graphic statics applied to engineering construction. Prerequisite: Course 14. One hour attendance. Six hours drawing. Two hours preparation. Three hours credit. Second semester. Chatburn

23. **Applied Descriptive Geometry**—Advanced course in mechanical drawing. Practical applications of the principles of descriptive geometry. Shades, shadows and perspective; tinting and stippling. Prerequisite: Courses 1 and 2. Three, six or nine hours drawing a week. One, two or three hours credit. First and second semesters. Rasmusen

24. **Free-Hand Drawing**—Designed for engineering students. Three hours drawing. One hour credit. First and second semesters. Hayden

25. **Road Materials Testing**—Examination, classification, and testing of road and pavement materials including rock, gravel, sand, clay, earth, paving brick, wood blocks, stone blocks, oils, asphalts, and tars. The testing of cement concrete, bituminous concrete, and sheet asphalt. The building of a miniature road or pavement model illustrating the successive steps of construction, as well as the finished road or pavement. Prerequisite or parallel: Course 14, and C. E. 21. One hour attendance and two hours preparation. Three hours laboratory. Two hours credit. Additional credit may be earned by special arrangement. First and second semesters. Mickey

26. **Road Materials Testing**—Course 25 continued. Six hours laboratory. Two hours credit. First and second semesters. Mickey

27. **Specifications and Working Drawings**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; detailing on a large scale various parts, such as, walls, roofs, cornices, doors, windows, stairs, etc. Plans, elevations and details of small dwelling house; specifications and estimate of cost. Two hours lecture. Four hour preparation. Six hours drawing. Two hours credit. First semester. Slaymaker

27a. **Specifications and Working Drawings**—Course 27 modified for Architectural students. Two hours lecture. Four hours preparation. Three hours drawing. Three hours credit. First semester. Slaymaker

28. **Specifications and Working Drawings**—Foundations of stone, brick, concrete, and piles; kinds of masonry and external finish; brick-masonry, its materials and bonds; terra-cotta design, etc. Detailing of

columns, beams, girders, and footings; joints and connections; use of architectural handbooks. Two hours lecture. Four hours preparation. Six hours drawing. Four hours credit. Second semester. Slaymaker

28a. **Specifications and Working Drawings**—Course 28 modified for Architectural students. Two hours lecture. Four hours preparation. Three hours drawing. Three hours credit. Slaymaker

30. **Advanced Mechanics**—Open to students who have completed course 14 or Mathematics 4. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Chatburn

CIVIL ENGINEERING

Professor Stout (*Head of Department*), Professor Chatburn, Associate Professor Bridgman, Assistant Professor Riddervold, Mr. Kingsland

FOR UNDERGRADUATES AND GRADUATES

5. **Surveying**—To be accompanied by course 5a. Prerequisite: Trigonometry. Two hours attendance. Four hours preparation. Two hours credit. First and second semesters. Bridgman, Kingsland

5a. **Surveying Field Work**—To accompany course 5. Six hours field. Two hours credit. First and second semesters. Bridgman, Kingsland

6. **Surveying**—5 continued. Second semester.

6a. **Surveying Field Work**—5a continued. Second semester.

8. **Railway Surveying**—Field and office methods employed in surveys for locating and constructing railroads. Prerequisite: Courses 5 and 5a. One hour attendance. Six hours field. Two hours preparation. Three hours credit. Second semester. Bridgman

9. **Railway Construction**—Principles and practice. Roadbed, tunnels, minor structures. Contractors' organization and equipment. Cost data and analysis; estimates. Prerequisite: Course 8 or equivalent experience in actual work. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bridgman

10. **Economic Theory of Railway Location**—Scientific balancing of cost, receipts, and operating expenses. Open to fourth-year students. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Bridgman

11. **Hydraulics**—Prerequisite: Calculus and Applied Mechanics 14. Two hours attendance. Four hours preparation. Two hours credit. Both semesters. Stout

12. **Irrigation Engineering**—Grade, cross-section and capacity of canals; surveys; designs of structures; source of water supply; analysis of hydrographic data; return and seepage waters; irrigation by pumping; organization; legal and economic principles. Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Stout

13. **Water Supply of Cities**—Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

14. **Cleaning and Sewerage of Cities**—Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Riddervold

15. **Design of Framed Structures**—Prerequisite: Course 16. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

16. **Stress in Framed Structures**—Prerequisite: Applied Mechanics 15. Four hours attendance. Eight hours preparation. Four hours credit. Second semester. Riddervold

17. **Reinforced Concrete**—Theory and practice in design and construction of concrete reinforced by steel. Prerequisite: Applied Mechanics 15. Three hours attendance. Six hours preparation. Three hours credit. First semester. Riddervold

18. **Structural Design**—Adapted to the needs of students in Mechanical and Electrical Engineering. Prerequisite: Applied Mechanics 15. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Riddervold

20. **Advanced Theory of Structures**—Arches, cantilevers, continuous girders, statically indeterminate stresses. Prerequisite: Course 15. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Riddervold

21. **Roads, Streets and Pavements**—Lectures, assigned readings, and reports. Two hours attendance. Four hours preparation. Two hours credit. First semester. Chatburn

22. Masonry Construction—Prerequisite: Applied Mechanics 14. Four hours attendance. Eight hours preparation. Four hours credit. Second semester. Bridgman

24. Hydraulic Engineering—Hydraulic development for purposes of drainage, power, and transportation. Flood protection. Collection and analysis of hydrographic data and the principles involved in the design of reservoirs, canals, levees, and structures. Prerequisite: Course 11. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Stout

25. Engineering Economics—Conducted on the seminar plan. Two hours attendance. Four hours preparation. Two hours credit. First semester. Stout, Bridgman, Riddervold

26. Engineering Economics—25 continued. Second semester.

30. Exploratory Surveying—Designed for students of forestry. Prerequisite: Course 5. One hour attendance. Six hours field work. Two hours preparation. Three hours credit. Second semester. Bridgman

ELECTRICAL ENGINEERING

Professor Ferguson (*Head of Department*), Associate Professor Hollister,
Mr. Goddard

PRIMARILY FOR UNDERGRADUATES

1. Direct Currents—Elements of electrical engineering. Theory and practice of direct-currents circuits and apparatus. Conducted with some laboratory work in the latter half of the semester. Prerequisite: Math. 4, Phys. 3. Four hours attendance. Ten hours preparation. Five hours credit. First semester. Ferguson, Goddard

2. Dynamos and Circuits—Continuation of course 1, including principles of design and practice therein and elementary work with alternating currents. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Ferguson, Goddard

3. Electrical Power—Elementary principles, industrial applications. For students in the Architectural, Agricultural, Civil and Mechanical Engineering groups. Prerequisite: Math. 4, Phys. 3. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hollister

4. Electrical Power—Continuation of course 3, including principles of alternating currents. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hollister

5. Alternating Currents—Theory and practice of alternating-current circuits and apparatus. Prerequisite: Courses 1 and 2. Five hours attendance. Ten hours preparation. Five hours credit. First semester.

Ferguson

6. Alternating Currents—Continuation of course 5, including power systems, etc. Three hours attendance. Six hours preparation. Three hours credit. Second semester.

Hollister

8. Electrical Laboratory—Practice in operating and testing direct-current generators, motors and subsidiary apparatus. Prerequisite: Course 1. Three hours laboratory. Three hours preparation. Two hours credit. Second semester.

Goddard

8a. Electrical Laboratory—Similar to course 8 but adapted to the needs of the agricultural, architectural, civil and mechanical engineers. Prerequisite: Course 3. Three hours laboratory. Three hours preparation. Two hours credit. First and second semesters.

Goddard

9. Electrical Laboratory—Continuation of course 8. Three hours laboratory. Three hours preparation. Two hours credit. First semester.

Hollister, Goddard

9a. Electrical Laboratory—Elective offered to accompany course 9. Telephone practice, mercury-arc rectifier, illumination, etc. Three hours laboratory. One hour credit. First semester.

Hollister, Goddard

10. Electrical Laboratory—Continuation of course 9. Advanced laboratory practice including use of oscillograph. Three hours laboratory. Three hours preparation. Two hours credit. Second semester.

Hollister, Goddard

10a. Electrical Laboratory—Elective offered to accompany course 10. Storage batteries, high potentials, etc. Three hours laboratory. One hour credit. Second semester.

Hollister, Goddard

FOR GRADUATES AND UNDERGRADUATES

15. Technical Reports—Preparation and presentation of reports upon technical subjects. Prerequisite: Courses 1, 2 and 8 and registration in 5. One hour attendance. Two hours preparation. One hour credit. First semester.

Hollister

16. Technical Reports—Continuation of course 15. Elective. One hour attendance. Two hours preparation. One hour credit. Second semester.

Hollister

17. **Electric Lighting and Illumination**—Lighting apparatus, illumination and illuminating engineering. Prerequisite: For Electrical Engineers—course 1 and Phys. 4; for Architectural Engineers—Phys. 4 and E. E. 3. Two hours attendance. Four hours preparation. Two hours credit. First semester. Goddard

18. **Electro-Chemical Engineering**—Elements of electro-chemistry, with special emphasis placed upon some of the commercially most important processes as metal winning, furnaces, storage batteries, etc. Prerequisite: Courses 1 and 8. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Ferguson, Goddard

19. **Telephone Engineering**—Line construction, instruments, switchboards, systems, operation, etc. Prerequisite: Courses 1 and 8 and registration in 5. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hollister

20. **Electric Railways**—Preliminary estimates and economics, construction, equipment and operation. Prerequisite: Courses 1 and 8. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Ferguson

21. **Electric Power Systems**—Generation, transmission, distribution and utilization of power. Prerequisite; courses 2 and 8 and registration in course 5. Three hours attendance. Six hours preparation. Three hours credit. First semester.

22. **Electrical Design**—Alternate-current apparatus, transformers, synchronous generators. Prerequisite: Courses 5 and 9. Three hours lecture. Six hours calculation and drafting. Three hours credit. Second semester. Ferguson

28. **Thesis**—The election of thesis work is allowed only to men well prepared to benefit therefrom. In order to be approved, the subject chosen for investigation must demand scientific treatment. It is advised that the work be laid out to extend through two semesters. Registration in the second semester must be preceded by approval of subject as early as November 15 preceding. A maximum total credit of four hours may be received. Ferguson, Hollister

31. **Engineering Problems**—Engineering problems demanding a knowledge of algebra, trigonometry, calculus, vectors, mechanics, electrical phenomena, alternating-current circuits, etc. Prerequisite: Math. 4, Phys. 5 and registration in E. E. 5 and 9. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Ferguson, Hollister

PRIMARILY FOR GRADUATES

51. **Alternating-Currents**—Transients, electric waves, etc. First or second semester. Three hours credit. Ferguson

61. **Electrical Design**—Advanced electrical apparatus design. Three hours credit. First or second semester. Ferguson

91. **Electrical Laboratory**—Advanced investigations. Hours and credit to be arranged. First semester. Ferguson, Hollister

92. **Electrical Laboratory**—Continuation of course 91. Hours and credit to be arranged. Second semester. Ferguson, Hollister

MECHANICAL ENGINEERING

Professor Hoffman (*Head of Department*), Associate Professor Dean, Associate Professor Raber, Assistant Professor Bunting, Mr. Payne, Mr. Grennan

PRIMARILY FOR UNDERGRADUATES

1. **Wood Work**—Bench work in wood work and wood-turning; lectures on wood-working tools and machinery and the properties of timber. One hour attendance. Eight hours laboratory. Three hours credit. First semester. Bunting

2 and 2a. **Pattern-Making and Elementary Foundry Work**—Construction of patterns and core-boxes; lectures on pattern-making, foundry work and the metallurgy of cast iron. Prerequisite: Course 1. One hour attendance. Eight hours laboratory. Three hours credit. Second semester. Bunting, Grennan

3. **Iron and Steel Forging**—Practice in forging, welding and tempering; lectures on forging tools and machinery and the metallurgy of iron and steel. One hour attendance. Five hours laboratory. Two hours credit. First semester. Grennan

3a. **Advanced Foundry Work**—2a continued. Prerequisite: Course 2a. Three hours laboratory. One hour credit. First semester. Taken with course 3. Grennan

4. **Machine Work in Metals**—Exercises in the use of the engine lathe, planer, shaper, milling machine and the art of cutting metals; lectures on machine tools. One hour attendance. Five hours laboratory. Two hours credit. First and second semesters. Payne

5. Machine Construction—4 continued. Prerequisite: Course 4. One hour attendance. Eight hours laboratory. Three hours credit. First and second semesters. Payne

FOR GRADUATES AND UNDERGRADUATES

10. Steam Engineering—Forms and mechanism of steam machinery. Economy of operation and adaptability to a given service; elementary theory of heat engines. Differential and integral calculus and applied mechanics required. Four hours attendance. Eight hours preparation. Four hours credit. First and second semesters. Hoffman, Raber

11. Steam Boilers—Design and construction of steam boilers, furnaces, settings; their safety and economy of operation. Prerequisite: Course 10. Two hours attendance, occasional drawing. Four hours preparation. Two hours credit. First semester. Hoffman

13. Thermodynamics—Advanced study of the thermodynamics of gases and vapors, the applications of the science to heat engines, injectors, refrigerating machinery, steam turbines, etc. Prerequisite: Course 10. Three hours attendance. Six hours preparation. Three hours credit. First semester. Raber

14. Building Sanitation—Principles of the design of plumbing systems for air, gas and water. Sanitary necessity of sewerage. Discussion of sewage disposal and drainage systems. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hoffman

15. Fuel Testing Laboratory—Proximate analyses of coal; determination of heating value of coal, gas, and oil; the testing of lubricants and friction. Six hours laboratory. Two hours credit. First semester. Raber

16. Mechanical Engineering Laboratory—Calibration of instruments, indicator practice, valve setting, efficiency tests of engines and boilers, injectors, pumps, gas engines. The measurement of power. Course 10 to be a prerequisite or taken at the same time. One hour attendance. Eight hours laboratory. Three hours credit. First and second semesters. Dean

17. Mechanical Engineering Laboratory—Complete tests of simple and compound Corliss engines, air compressors, gas engines, steam pumps, and refrigerating machinery. Prerequisite: Course 16. One hour attendance. Eight hours laboratory. Three hours credit. First semester. Dean

18. **Experimental Hydraulics**—Experiments on the flow of water through orifices and nozzles and over weirs; the testing of hydraulic motors and pumps. Prerequisite: Civil Engineering 11. Six hours laboratory. Two hours credit. Second semester. Dean

19. **Heating and Ventilation**—Theory and design of the various systems for heating and ventilating buildings, including hot air, hot water, steam and the plenum and vacuum systems, and central station heating. Prerequisite: Course 10. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hoffman

20. **Steam Power Plant Design**—The design of a complete steam power plant and the formulation of specifications therefor. Prerequisite: Courses 10 and 11. Occasional lectures. Six hours drawing. Two hours credit. Second semester. Raber

22. **Gas Power Engineering**—The theory and design of gas, gasoline and oil engines; gas producer practice; the combustion of gaseous fuels. Prerequisite: Course 10. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Raber

24. **Power Transmission**—Transmission of power by shafting, belts, ropes, water, compressed air, gas. Course 10 to be a prerequisite or to be taken at the same time. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Hoffman

31. **Hydraulic Motors and Pumping Machinery**—Theory of water-wheels, turbines, pressure engines and pumps. Prerequisite: Civil Engineering 11. Three hours attendance. Six hours preparation. Three hours credit. First semester. Hoffman

PRIMARILY FOR GRADUATES

27. **Advanced Laboratory Investigations**—Special investigations of problems relating to steam engines and boilers, gas engines, etc. Nine or twelve hours laboratory. Three or four hours credit. First semester. Hoffman, Dean

28. **Advanced Laboratory Investigations**—27 continued. Nine or twelve hours laboratory. Three or four hours credit. Second semester. Hoffman, Dean

AMERICAN HISTORY

10. **Public Lands Policy and Laws of the United States**—Development of the successive "Wests" of American History; governmental policy and laws as to the disposition of lands to settlers in each "West"; rise of distinction between agricultural, mineral, grazing and forest lands; state public lands and land policies; the conservation movement. Text, reference and research work. Three hours attendance. Three hours credit. Second semester. *Given in 1915-1916 and alternate years.* Persinger]

BUSINESS LAW

1. **Business Law**—Contracts, including mistake, fraud, duress and capacity of parties; insurance; sales and mortgages of personal property; bailments. Three hours attendance. Six hours preparation. Three hours credit. First semester. Robbins

2. **Business Law**—1 continued. Negotiable instruments; suretyship and guaranty; partnership; private corporations; bankruptcy. Prerequisite: Course 1. Three hours attendance. Six hours preparation. Three hours credit. Second semester. Robbins

CHEMISTRY

Professor Dales (*Head of Department*), Associate Professor Borrowman, Mr. Lewis, Miss Miller

Analytical Chemistry

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 credit points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman, Lewis Miller

2. **Qualitative Analysis**—1 continued. An introduction to quantitative analysis is included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Borrowman, Lewis, Miller

1 and 2 (combined). **Qualitative Analysis**—Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Dales, Lewis, Miller

Technical and Metallurgical Chemistry

23. Engineering Chemistry—Lectures and readings on the sources, manufacture, composition (with special reference to efficiency) and behavior under various conditions, of the materials of engineering—iron and steel and other metallic materials, wood, stone, clay, mortars, and cements, fuels, water, lubricants, paints and varnishes, etc., with a laboratory course in the analysis of the same. Required of all engineers. Prerequisite: Courses 1 and 2. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters. Borrowman

23a. Engineering Chemistry—A laboratory course for engineers and others who wish to do more than is required in course 23. May be taken with or after course 23. Students may select work according to interest and needs and arrange with instructor for readings and laboratory hours. Prerequisite: Courses 1 and 2. Hours credit dependent on amount and quality of work done. Borrowman

GEOGRAPHY AND CONSERVATION

Professor Condra (*Head of Department*), Associate Professor Bengtson

1. The Land—A lecture and laboratory course in practical physiography. Some of the topics discussed are: The common minerals, rocks, structures and relief features; weathering; land forms produced by the erosion of plains, plateaus and mountain folds; flood plains, deltas, and alluvial fans; erosion and deposits of glaciers; work of the atmosphere. The lectures are fully illustrated by lantern, maps, models and specimens. Students carrying this course are advised to take also one or both of the related courses, 21 and 22. Two hours attendance. Four hours laboratory, library and preparation. Two hours credit. First semester.

Condra, Bengtson

2. Geography of North America—A summary study of the political divisions, relief and structure of the continent, and a full treatment of each of the seventeen soil regions as to the structure, physiographic history, topography, drainage, resources, industries, settlement and development. The Great Plains Region is emphasized. The course is suited to all students who wish a knowledge of the geography of our country. Lectures are illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester.

Condra, Bengtson

4. **The Atmosphere**—A course in practical meteorology. Elements of weather and climate studied in detail. Students are taught the use and construction of weather maps and climatic charts, forecasting and use and care of meteorological instruments. Open to all. Two hours credit. First and second semesters.

Loveland

5. **Industrial Geography**—A close study of the mineral fuels, forest and water resources and industries of the United States. Detailed studies are made of the regions, processes and products of the following industries: coal, coke, petroleum, iron and steel, lumber and pulp wood. Lectures fully illustrated by slides, maps and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. First semester.

Condra, Bengtson

19. **Soil Survey**—A course in detailed mapping of soils and land forms. Exemplifies methods used in state and federal surveys. Work done on Saturdays and vacations. See instructor before registering. Two hours credit. Given each semester.

Condra

20. **Soil Survey**—Course 19 continued.

21. **Field Work**—Field study of quarries, clay pits, gravel pits, sand dredges and rock out-crops, use of barometer, camera and drawing materials as employed on surveys. Interpretation of structures and topographies. One or two hours credit. Trips on Saturdays. First and second semesters.

Bengtson

22. **Field Work**—Course 21 continued.

MATHEMATICS

Professor Davis (*Head of Department*), Professor Engberg, other members of departmental staff

COURSES

A. **Solid Geometry**—Prerequisite: Five points high school credit. Five hours attendance. Four hours credit. First and second semesters.

1. **Algebra and Plane Trigonometry**—Prerequisite: Six points high school credit. Five hours attendance. Five hours credit. First and second semesters.

2. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

3. **Analytical Geometry and Calculus**—Five hours attendance. Five hours credit. First and second semesters.

4. **Calculus**—3 continued. Five hours attendance. Five hours credit.
First and second semesters.

4a. **Calculus**—4 continued. Two hours attendance. Two hours
credit. Second semester. Davis

5. **Differential Equations**—Prerequisite: Course 4. Three hours
attendance. Three hours credit. First semester. Candy

6. **Differential Equations**—5 continued. Second semester.

7. **Theory of Probabilities**—Three hours attendance. Three hours
credit. Second semester. Engberg

PHYSICS

Professor Skinner (*Head of Department*), Professor Moore, Professor Almy,
Associate Professor Tuckerman, Mr. McComb, Mr. Spencer

GENERAL AND EXPERIMENTAL PHYSICS

1. **General and Experimental Physics**—Mechanics of solids and
fluids. Two hours lecture with illustrative experiments. Solution of prob-
lems. Four hours laboratory. Three hours credit. First semester.

Almy, McComb, Spencer

2. **General and Experimental Physics**—Heat and sound. As in 1
Second semester.

3. **General and Experimental Physics**—Electricity. Two hours
lecture with illustrative experiments. Three hours laboratory. Two or
three hours credit. First semester.

Almy, Moore, Spencer

4. **General and Experimental Physics**—Electricity and light. As in
3. Second semester.

5. **Problems in Electricity**—Prerequisite: Course 3. Two hours
attendance. Two hours credit. Second semester.

Tuckerman

6. **Electrical Measurements**—Prerequisite: Courses 3 and 5. Eight
hours laboratory. Three hours credit. First semester.

Tuckerman

POLITICAL ECONOMY

1. **Elementary Course**—A general survey of the industrial organiz-
ation of society; development of natural resources; the division of labor;
production, exchange and distribution of wealth; utility and value, wages,
interest, rent and profits, money and credit, rise and fall of prices and the
cost of living, transportation, protection and free trade, trusts, and trade

union, state and municipal ownership, socialism. Three hours attendance. Three hours credit. First and second semesters.

Le Rossignol, Virtue, Stephens, England

9. Economic History of the United States—This course deals with the main lines of our industrial development from the colonial to the middle of the Nineteenth Century. The chief topics discussed are colonial industries and commerce; the economics of the Revolution; the settlement of the West; the growth of fundamental industries; commerce and shipping; commercial policy, including the early history of the tariff; financial history, including monetary and banking arrangements; history of manufactures; labor systems and organizations. Two hours attendance. Two hours credit. First semester. Virtue

10. Economic History of the United States—A continuation of course 9, showing the economic development of the United States from the middle of the Nineteenth Century to the present time. Two hours attendance. Two hours credit. Second semester. Virtue

35. Work and Wages—History of the labor movement in Europe and America; wages in the Nineteenth Century; theory of wages; methods of remuneration; the minimum wage; hours and conditions of labor; conciliation and arbitration; employer's liability, insurance and pensions; workmen in politics; relation of socialism to the labor movement. Three hours attendance. Three hours credit. First semester. Le Rossignol

36. Methods of Industrial Peace—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organization of employers and laborers, their aims and methods; interests of the general public; gains and losses through strikes; trade agreements; conciliation; voluntary and compulsory arbitration; co-operation and profit-sharing; political activities of workmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester. Le Rossignol

NOTE—For description of courses in: Biology (Botany, Zoology), Classics or Modern Language, English Literature, Military Science and Tactics, Philosophy, Physical Education, Rhetoric, and Spanish, see "Courses of Instruction," in the College of Arts and Sciences; for Agronomy, Dairy Husbandry, and Horticulture, see the College of Agriculture.

The College of Agriculture

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

EDGAR ALBERT BURNETT, B. Sc., Dean of the College of Agriculture and Director of Nebraska Experiment Station. Agricultural Hall 203.

CHARLES EDWIN BESSEY, Ph. D., LL. D., Professor of Botany and Head Dean of the University. (*Head of Department of Botany.*)

LAWRENCE BRUNER, B. Sc., Professor of Entomology and State Entomologist. (*Head of Department of Entomology.*) Plant Industry Hall 208.

¹ FREDERICK JAMES ALWAY, Ph. D., Professor of Agricultural Chemistry. (*Head of Department of Agricultural Chemistry.*)

EDWIN MEAD WILCOX, Ph. D., Professor of Agricultural Botany and Botanist of the Experiment Station. (*Head of Department of Agricultural Botany.*) Plant Industry Hall 304.

LEON WILSON CHASE, B. Sc. in M. E., Professor of Agricultural Engineering. (*Head of Department of Agricultural Engineering.*) Machinery Hall.

CHARLES WILLIAM PUGSLEY, B. Sc., Director of Extension Service in the College of Agriculture. Agricultural Hall 302.

JULIUS HERMAN FRANDSEN, M. S. A., Professor of Dairy Husbandry. (*Head of Department of Dairy Husbandry.*) Dairy Hall.

GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation.*) Director, State Conservation and Soil Survey. University Hall 311.

ALICE MARIE LOOMIS, A. M., Professor of Home Economics. (*Head of Department of Home Economics.*) Home Economics Hall.

¹ Resigned.

- HARRY ELWYN BRADFORD, A. B., Principal of the School of Agriculture and Professor of Secondary Agricultural Education. (*Head of Department of Secondary Agricultural Education.*) Agricultural Hall 207.
- WILLIAM PATTON SNYDER, M. S., Superintendent of North Platte Experimental Substation.
- ROLLINS ADAMS EMERSON, D. Sc., Professor of Horticulture. (*Head of Department of Horticulture.*) Plant Industry Hall 105.
- JAMES HARRISON GAIN, M. D. C., Professor of Animal Pathology. (*Head of Department of Animal Pathology.*) Veterinary Hall.
- ¹ EVERETT NEWTON BOWMAN, First Lieutenant, 4th Infantry, U. S. A., Commandant of Cadets and Professor of Military Science and Tactics. (*Head of Department of Military Science and Tactics.*)
- JOHN SINGLETON SWITZER, Major, 4th Infantry U. S. A., Commandant of Cadets and Professor of Military Science and Tactics. (*Head of Department of Military Science and Tactics.*)
- RALPH KENNETH BLISS, B. S. A., Professor of Animal Husbandry. (*Head of Department of Animal Husbandry.*) Agricultural Hall 103.
- WALTER JEAN MORRILL, M. F., Professor of Forestry. (*Head of Department of Forestry.*) Nebraska Hall 105.
- PERCY BOUSFIELD BARKER, A. M., Professor of Instructional Agronomy. (*Head of Department of Instructional Agronomy.*) Experiment Station Hall.
- THEODORE ALEXANDER KIESSELBACH, A. M., Professor of Experimental Agronomy. (*Head of Department of Experimental Agronomy.*) Plant Industry Hall 202.
- FRED WILBERT UPSON, Ph. D., Professor of Agricultural Chemistry and Chemist of the Experiment Station. (*Head of Department of Agricultural Chemistry.*) Experiment Station Hall.
- ¹ WILLIAM WESLEY BURR, B. Sc., Soils, Associate in Crops. North Platte.
- ¹ ALICE BAIRD ENSIGN, A. B., Adviser to Women.
- GEORGE ANDREW LOVELAND, A. M., LL. B., Professor of Meteorology and Section Director United States Weather Bureau. Brace Laboratory.

¹ Resigned.

- MARY CATHERINE GRAHAM, A. B., Dean of Women.
- MYRON HARMON SWENK, A. M., Professor of Economic Entomology and Assistant State Entomologist. Plant Industry Hall 206.
- HORACE CLYDE FILLEY, A. M., Professor of Farm Management. (*Head of Department of Farm Management*). Agricultural Hall 301.
- HOWARD JOHN GRAMLICH, B. Sc., Assistant Superintendent of Agricultural Extension. Associate Professor of Animal Husbandry (Horses). Agricultural Hall 302.
- LAZELLE BRANTLY STURDEVANT, A. M., M. D., Associate Professor of Animal Pathology. Veterinary Hall.
- CHARLES BOPES LEE, A. M., Associate Professor of Animal Husbandry. Agricultural Hall 104.
- FRED EMANUEL JOHNSON, B. Sc., D. V. S., Superintendent of Serum Plant.
- NELS AUGUST BENGTON, A. M., Associate Professor of Geography and Conservation. University Hall 308.
- GEORGE WILLIAM HOOD, B. Sc., Associate Professor of Horticulture. Plant Industry Hall 102.
- ERWIN HOPT, B. Sc., Associate Professor of Agronomy (Crops). Stock Judging Pavilion.
- GEORGE KONRAD KARL LINK, A. M., Associate Professor of Agricultural Botany. Plant Industry Hall 304.
- LAWRENCE FROYD SEATON, B. Sc. in M. E., Assistant Professor of Agricultural Engineering. Machinery Hall.
- JOHN RALPH COOPER, B. Sc., Assistant Professor of Horticulture. Plant Industry Hall 102.
- ¹ GEORGE CLEVELAND WHITE, A. M., Assistant Professor of Dairy Husbandry.
- HARLEY MARTIN PLUM, A. M., Assistant Professor of Agricultural Chemistry. Experiment Station Hall.
- HORACE JAMES YOUNG, B. Sc. in Agr., Assistant Professor of Instructional Agronomy. (Soils). Experiment Station Hall.
- OSCAR ROSS MARTIN, A. M., Assistant Professor of Political Economy and Commerce. University Hall 103.

¹ Resigned.

- ¹ HUBERT BIDLER CARPENTER, B. S. A., Assistant Professor of Animal Husbandry. Agricultural Hall 104.
- JOHN WILLARD CALVIN, B. Sc., Assistant Professor of Agricultural Chemistry. Experiment Station Hall.
- SIMON WAYNE ALFORD, D. V. S., Station Assistant in Serum Production.
- JULIA EMELINE LOUGHRIDGE, A. B., Assistant Principal of the School of Agriculture and Assistant Professor of Mathematics. Agricultural Hall 207.
- ¹ ROBERT SAMUEL TRUMBULL, A. M., Assistant Professor in Agricultural Chemistry.
- HELEN LEE DAVIS, A. B., B. Sc., Assistant Professor of Home Economics. Home Economics Hall.
- ANNA MARGRETHE OLSEN, B. Sc., Assistant Professor of Home Economics. Home Economics Hall.
- FLORA BULLOCK, A. M., Assistant Professor of English in the School of Agriculture.
- ALVA ALDUS BAER, A. B., Assistant Professor of Agricultural Engineering. Machinery Hall.
- NEAL TOWNLEY CHILDS, M. F., Assistant Professor of Forestry. Nebraska Hall 105.
- EDWIN GARVER WOODWARD, A. M., Assistant Professor of Dairy Husbandry. Dairy Hall.
- FLORENCE ANNA McCORMICK, M. S., Assistant Professor of Agricultural Botany. Plant Industry Hall 313.
- CARRIE BELLE RAYMOND, Director of Music.
- JOHN ANDERSON RATCLIFF, A. B., Assistant Professor of Experimental Agronomy. Plant Industry Hall 202.
- ELMER EUGENE BRACKETT, B. Sc. in E. E., Assistant Professor of Agricultural Engineering. Machinery Hall.
- BESSIE LOUISE PARK, Assistant Professor of Physical Education.
- MARY VIRGINIA ZIMMER, A. B., Assistant Professor of Mathematics, School of Agriculture. Agricultural Hall 207.

¹ Deceased.

² Resigned.

- ¹ EARL STEPHEN BISHOP, A. M., Station Assistant in Agricultural Chemistry.
- CHARLES ALTON HELM, B. Sc., Instructor in Experimental Agronomy. Plant Industry Hall 202.
- FRANK CLIFFORD DEAN, A. B., Agricultural Editor. Agricultural Hall 205.
- ¹ ORPHA ELLEN NESBIT, B. Sc., Instructor in Home Economics.
- MARY-ELLEN BROWN, B. Sc., Instructor in Home Economics. Home Economics Hall.
- ¹ MABEL MAUDE HEDGES, A. B., Instructor in Home Economics.
- CLARE BROWN CORNELL, A. M., Instructor in Cadet Band.
- IVAN DALEY WOOD, B. Sc. in A. E., Instructor in Agricultural Engineering. Machinery Hall.
- RALPH WARD DAWSON, B. Sc., Instructor in Entomology. Plant Industry Hall 203.
- ¹ JESSIE GENEVA GREENE, B. Sc., Instructor in Home Economics. Home Economics Hall.
- MARGARET SOPHIE FEDDE, Instructor in Home Economics.
- RUSSELL CLAIR JENSEN, A. M., Instructor in Dairy Husbandry. Dairy Hall.
- MAUDE MATHES WILSON, B. Sc., Instructor in Home Economics. Home Economics Hall.
- ROBERT LEO MOORE, Instructor in Agricultural Engineering. Machinery Hall.
- MARY STANDERVICK VANKIRK, Instructor in Home Economics. Home Economics Hall.
- EDITH VIOLET OHLSEN, B. Sc., Instructor in Home Economics. Home Economics Hall.
- GLAIDETH GAINEVERE DENNY, A. B., Instructor in German and History, School of Agriculture. Agricultural Hall 304.
- ESTHER MOSHER BURRITT, A. B., Instructor in English, School of Agriculture. Agricultural Hall 204.
- ROY WESLEY EATON, A. B., Instructor in Normal Training, School of Agriculture. Agricultural Hall 205.

¹ Resigned.

- ¹BERNA ANN MISKELL, B. Sc., Instructor in Home Economics, School of Agriculture. Home Economics Hall.
- CHAUNCEY WILLIAM SMITH, Instructor in Physics, School of Agriculture. Experiment Station Hall.
- HESTER MARY RUSK, A. B., Instructor in Agricultural Botany, School of Agriculture. Plant Industry Hall 312.
- ¹ROSE AMELIA SHONKA, Instructor in Home Economics, School of Agriculture.
- ¹ETHEL LORA BREINER, Instructor in Home Economics, School of Agriculture. Home Economics Hall.
- FRANKLIN DAVID KEIM, B. Sc., Instructor in Agronomy (Crops).
- ARTHUR GREY GEORGE, B. Sc., Instructor in Instructional Agronomy.
- HAROLD BORCKWAY PIER, Instructor in Animal Husbandry.
- LELIA F. CORBIN, Assistant in Home Economics and Preceptress in the Dormitory.
- RUSSELL REUBEN DODDERIDGE, B. Sc., Lecturer in Animal Husbandry. Agricultural Hall 104.
- ARTHUR EUGENE ANDERSON, A. B., Assistant State Leader in Agricultural Extension. Agricultural Hall 301.
- HULDAH PETERSON, Assistant in charge of Boys' and Girls' Clubs. Agricultural Hall 301.
- EMMA REED DAVISSON, Assistant in charge of Women's Clubs. Agricultural Hall 301.
- EDNA CLARA NOBLE, B. L., Library Assistant in charge of University Farm Library. Agricultural Hall.
- HOWARD ELMER VASEY, B. Sc., Assistant in Agricultural Botany.
- LEROY MALLALIEU GATES, B. Sc., Assistant in Entomology. Plant Industry Hall 204.
- EDGAR ALEXANDER MARKHAM, Assistant in Dairy Husbandry. Dairy Hall.
- ASTRED ALTHEA KJELSON, Assistant in Home Economics.
- SARAH LOUISA VINING, Supervisor of Dormitory. Home Economics Hall.

¹ Resigned.

JAMES COWAN, M. E., Superintendent Experimental Substation, Valentine.

FRITZ KNORR, B. Sc., Superintendent Experimental Substation, Mitchell.

¹ SENATOR WILLIS PERIN, Farm Superintendent.

HOMER LEROY NYE, Foreman Demonstration Farm, Culbertson.

FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

JAMES LLOYD THOMAS, B. Sc., Assistant in Instructional Agronomy.
GEORGE HOWARD BROTHER, B. Sc., Assistant in Agricultural Chemistry.

HELEN AGATHA SAWYER, A. B., Assistant in Home Economics.

ARTHUR W. MEDLAR, A. B., Assistant in Farm Management.

SIDNEY M. CADWELL, Assistant in Agricultural Chemistry.

RUSSELL RICHARD SPAFFORD, Assistant in Instructional Agronomy (Crops).

LOUIS ARTHUR LATHROP, Assistant in Animal Husbandry.

Standing Committees of the Faculty

Course of Study—Professor Bradford (chairman), Professors Bruner, Wilcox, Chase, Frandsen, Morrill, Loomis, Barker.

Schedule of Classes—Professors Chase (chairman), Professors Bradford, Loughridge, the Registrar.

Advanced Standing—The Chancellor (chairman), the Dean, and the Inspector of High Schools.

¹ Resigned.

PURPOSE OF THE COLLEGE OF AGRICULTURE

The College of Agriculture was established by an act of the legislature of 1909, reorganizing the colleges within the University. The purpose of this college is (1) to provide thorough instruction in the technical agricultural sciences (including Forestry), (2) to aid in the promotion of agriculture through its secondary Schools of Agriculture, its Experiment Stations, and its Agricultural Extension work, and (3) to promote household arts through its department of Home Economics.

GROUPS OF STUDY

The **Agricultural Science Group** meets the needs of those students who wish to prepare themselves for the pursuit of scientific investigation along some line of agriculture, such as agricultural botany, agricultural chemistry, agronomy, animal husbandry, animal pathology, dairy husbandry, entomology, forestry, horticulture, and other technical subjects related thereto. This group should also appeal to those who desire to prepare themselves for teaching in high schools or in agricultural colleges and who desire agricultural training to meet the demands of the schools requiring that instruction be given in agriculture. As a course in general education for students who expect to follow business pursuits or to continue still further the study of some technical agricultural subject, this course is offered as a suitable foundation.

The **Agricultural Practice Group** meets the needs of those students who come to the college for one or two years with expectation of returning to the farm at the expiration of that time and who wish to get a large amount of agriculture in the early part of the course.

The work of the first two years correlates with that of the latter years so that the student can complete his course for a degree in four years.

This group is not intended for those who wish to pursue scientific research. Such persons should take the agricultural science group.

To those who desire an education which will put them in touch with the leading industrial activities of the state and fit them to become leaders in the community this course will prove efficient.

Persons choosing the Agricultural Practice Group will find it to their advantage to live near the University Farm since all of the first year's work and most of the second year's work will be offered at the Farm Campus.

Forestry Group. This group is designed to prepare men for either general or technical work in forestry. The sequence of the courses during the first three years is arranged to give a basis for a broad education and

at the same time to give a good scientific foundation leading to the more technical courses in forestry. While the group is intended primarily for foresters, many of the courses may be taken by students in general collegiate work or by students specializing in other lines who desire a knowledge of some particular line of forestry.

The **Home Economics Group** leads to the degree of Bachelor of Science in Home Economics. Besides those subjects which have to do especially with the home, it includes studies in science, language, history, and other branches affording a good general education. This department is housed in Home Economics Hall, situated on the University Farm. The hall is a three-story brick building, equipped to provide practical instruction in cooking, sewing, and house management.

FACILITIES FOR INSTRUCTION

To illustrate properly the work in the various departments in agriculture, the college is provided with a farm of 320 acres which is used for experimental purposes and to illustrate methods in farm practice, showing the effect of rotations and methods of treatment on the physical and chemical properties of the soil and on its productiveness. The department of Horticulture maintains an extensive orchard and garden for demonstrating horticultural methods and practices. The departments of Animal Husbandry and Dairy Husbandry keep extensive herds for instruction in types of farm animals. The agricultural plant, aside from lands, consists of eight main buildings and several barns and accessory buildings to complete the work and efficiency of the plant. Agricultural Hall is used for administration, library, and general class rooms. Experiment Station Hall furnishes laboratories for Soils, Physics, and Agricultural Chemistry. The Judging Pavilion furnishes stock judging laboratories and grain judging laboratories, with exceptional facilities for work. The Agricultural Engineering buildings furnish laboratories in forge work, wood work, farm machinery, farm motors, rural architecture, automobiles, concrete work, and domestic engineering. Plant Industry Hall furnishes class and laboratory facilities for Horticulture, Entomology, Agricultural Botany and Experimental Agronomy. Dairy Hall furnishes laboratories for instruction in butter-making and cheesemaking, supplemented by a herd of exceptional efficiency to demonstrate the best dairy practice. Home Economics Hall furnishes laboratories for instruction in cooking and in household art. All of the technical departments giving instruction have excellent laboratory facilities and depend upon the laboratory method to give definiteness and efficiency to their instruction.

ADMISSION TO THE COLLEGE OF AGRICULTURE

Entrance Credits. For admission to the Freshman year of the College of Agriculture the candidate must present 30 entrance credits or "credit points" from an accredited secondary school, of which he must be a graduate. Conditional admission will be permitted on a minimum of 28 credits or "points" from an accredited secondary school, of which the student must be a graduate. Graduates from the University Preparatory Course in the School of Agriculture are admitted to full Freshman standing without examination. A student who has graduated from an accredited three year high school with less than 28 "credit points" by registering in the School of Agriculture may, upon the satisfactory completion of one year's work, offer his combined credits in the two schools for entrance into the Freshman year of the Agricultural College.

A student admitted conditionally to the College with but 28 "credit points" must remove these conditions at the earliest opportunity. A degree will not be granted until such conditions are removed.

The following table indicates the entrance requirements to the College of Agriculture from accredited high schools. A graduate of a fully accredited high school or academy upon presenting a certificate is admitted without examination to any class for which he is fully prepared:

Required Subjects—(18 points)		Points
English.....		4
History (European) <i>a</i>		2
Language (Foreign) <i>b</i>		6
Mathematics.....		4
Science (Laboratory) <i>c</i>		2
Elective Subjects—(In addition to above)		
Subjects taught in an approved manner in an accredited secondary school.....		12
Total.....		30

- a* History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- b* Language: A third year of Mathematics or a second year of laboratory science may be offered in place of a third year of Language.
- c* Science: Both Physics and Chemistry are desirable for entrance to this College but a full year of either Physics or Chemistry should be offered. Students offering only a half year of either cannot continue their study in the College without registering for the elementary course.

An "entrance credit" or "credit point" means the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses, a "credit point" means three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least eighteen weeks.

Entrance From the School of Agriculture. All students who have completed the University Preparatory group in the School of Agriculture are admitted to the College of Agriculture without examination. Young women graduating in Home Economics are admitted to the Home Economics group of the College of Agriculture.

Entrance From Non-Accredited Schools and Colleges. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University should forward his credentials to the Registrar and be prepared to take such examinations as may be prescribed. If such credentials do not clearly show the number of weeks' study and the number of recitations a week, together with time devoted to laboratory work, if any, the prospective student should apply to the Registrar for blank credential slips. These should be properly filled out and returned, when he will be informed at once whether his credentials are or are not acceptable.

Adult Special Students. Students over twenty-one years of age, not candidates for degrees, may register in the College of Agriculture without conforming to the entrance requirements. The admission of adult special students is permitted after consultation with and upon the recommendation of the Dean. Such students must pay all necessary fees. Upon fulfilling the entrance requirements, adult special students may register as regular students, and become candidates for a degree.

Registration at the University Armory on the City Campus. Registration in the College of Agriculture takes place during the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. To promote prompt registration, a registration fee of \$3.00 is charged a student who, without good reason, fails to register within the days set aside for this purpose.¹ A like fee is charged for the re-registration when made necessary by the student's fault; any change whatever in a registration

¹ Properly prepared students who are unable to enter at the beginning of the year are admitted later; but all students who can possibly do so are urged to be present at the beginning of the year, as students entering later are at much disadvantage, and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session.

once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5.00, and no student is allowed to make such a change without written permission to the Registrar from the Dean of each college concerned.

No student is allowed to change his group or drop any study for which he has been regularly registered without written permission from the Dean of the college. No regular student is permitted to register for less than twelve (12) hours without special permission from the Dean. No first year student may register for more than 16 credit hours except by written consent of the Dean, and then for a maximum of 17 hours. Second to fourth year students may register for 18 hours credit if they have completed 16 hours with an average grade of 80 per cent or above, the previous semester. No first year student may register for more than one 1-hour course (in addition to drill or Physical Education) in any one semester, and no second to fourth year student may register for more than two such courses in any one semester. A student cannot attend a class for which he is not registered, and no credit will be granted for studies pursued without registration.

FEES AND EXPENSES

Fees. All fees and charges are payable in advance to the Secretary of the University. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of withdrawal from a class or from the University. The schedule of fees in the College of Agriculture is as follows:

Matriculation (paid only on first registration).....	\$5.00
Being a statutory fee, this cannot be refunded except when collected through error.	
Non-resident (charged to each person not a resident of the state), each semester.....	15.00
Incidental, each semester.....	3.00
Library (charged to each student who does not pay a laboratory fee), each semester.....	1.00
Special registration (for late registration or re-registration).....	3.00
Special examination, each course.....	1.00
Diploma, first degree.....	5.00
Diploma, advanced degree.....	\$10.00
Additional Diploma fee if degree is taken <i>in absentia</i>	10.00
Certificate.....	1.00

LABORATORY FEES

- Agricultural Botany—Courses 1, 2, 7, 8, 9, 10, 13, 14, 15, 16, \$3; 5, 6, 11, 12, \$1.
- Agricultural Chemistry—100D, 100E, 101, 102, 115, 116, \$5; 103, 104, \$6; 117, 118, \$10.
- Agricultural Engineering—Courses 1, 2, 4, 11, \$3; 3, 5, 6, 17, \$1; 18, 20, \$2; 9, 10, \$4; 13, \$8.
- Agronomy, Instructional—1, 2, 7, 8, \$1.
- Botany—Courses 1, 2, 21, 22, 25, \$2; 13, 14, \$1; 6, 19, 20, \$3.
- Chemistry—Courses A, B, 1, 2, Da, 3a, \$5; 14, \$8; 3, \$10.
- Civil Engineering—Courses 5a, 30, \$3.
- Dairy Husbandry—Courses 1, 4, 8, 10, 12, \$3; 5, 14, \$4.
- Entomology—Courses 3, 4, 7, 8, 9, 10, 11, \$1; 5, 6, \$2.
- Forestry—Courses 3, 4, 5, \$2.
- Geography—Courses 1, 2, 6, \$1.
- Geology—Course 1, \$1.
- Home Economics—Courses 1, 2, 7, 8, 9, 10, 11, 12, \$2; 3, 4, \$3; 5, 6, \$5.
- Physics—Courses 11, 12, \$4.
- Physiology—Courses 1, 2, \$5.

Expenses. In Lincoln, board and lodging may be secured in private families for from \$3.50 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and The Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

Uniforms costing about \$15 are required for military drill.

REQUIREMENTS FOR GRADUATION

University Credits. For the degree of Bachelor of Science, 125 University "credit hours" are required.¹ No student is recommended for a degree who is not within 18 hours of this requirement at the beginning of his last semester.

¹ A course receives one "credit hour" for each one-hour recitation or lecture and two-hours preparation or laboratory period it demands for each of the eighteen weeks of a semester.

Required Subjects. Each candidate for the degree of Bachelor of Science in the College of Agriculture must complete the following subjects:

For the Agricultural Science Group:	Hours
Modern Language (French or German).....	10
Biology (Botany, Entomology or Zoology).....	10
Physical Science (Chemistry or Physics).....	8
Biological, Physical, or exact Science.....	10
¹ English (Rhetoric and English Literature).....	10
History, Political Science, Philosophy or Economics (one or more) ..	6
Military Science for men or Physical Training for women.....	4
Agricultural Subjects (in major subject 20 hours).....	40
Total.....	98

For the Agricultural Practice Group:	Hours
Chemistry.....	10
Botany, Entomology, or Zoology, (two required).....	12
Physics, Chemistry or Biological Science.....	6
English, (Rhetoric and English Literature).....	10
Modern Language, English Literature, History, or Sociology.....	14
Political Economy.....	5
Drill.....	4
Meteorology.....	2
Agriculture (in major subject 20 hours).....	40
Total.....	103

For the Forestry Group, for students registering 1913 and after:	
Chemistry and Physics.....	13
Mathematics.....	15
Biological Science (Botany, Entomology, and Zoology).....	27
Forestry.....	27
Modern Language.....	13
¹ Rhetoric and English Literature.....	12
Total.....	107

¹ Rhetoric 1 and 2 required.

For the Home Economics Group ¹	Hours
Foreign language, ancient or modern.....	10
² English (Rhetoric and English Literature).....	10
History.....	6
Philosophy, Sociology or Political Science and Education.....	9
³ Chemistry.....	16
Biological Sciences.....	12
Physical Training.....	5
Home Economics.....	30
Total.....	98

Science Requirement. No student will be granted a degree from the College of Agriculture who has completed less than 60 hours of sciences, which may include Agriculture or Home Economics. Students selecting the Agricultural group will be required to complete 40 hours of agricultural subjects, to be taken in not less than three departments, and 28 hours of other science. Students selecting the Forestry group will be required to complete 40 hours of Botany and Forestry. Students selecting the Home Economics group will be required to complete 30 hours of Home Economics.

Military Drill Required. Four hours of military science (courses 1, 2, 3, 4) are required of all men students. Only credibly attested physical disability, or membership in a religious organization whose creed forbids participation in warfare in any form (on the part of parent in case of a minor) are accepted as excusing from the requirement in military science. Those excused for conscientious scruples are required to do work in Physical Education equivalent in amount. Unless excused or reprieved, each undergraduate man must fulfill this requirement in freshman and sophomore years. A man excused from this requirement (whatever the reason) must still, in order to graduate, obtain the full number of hours credit required of other candidates for the degrees sought. Thorough drill elsewhere than at the University may, as in the case of any other study, on evaluation, be credited to a student in lieu of a like amount of military science at the University. Such credit by commutation, however, in no case exceeds a total of four hours.

¹ For the additional requirements for the University Teachers' Certificate see page 338.

² Rhetoric 1 and 2 required.

³ This requirement may be decreased by the acceptance of high school Chemistry for entrance.

Major Subjects. Not later than the beginning of his second year each student in the College of Agriculture must select some one department of the college in which he will take a major of not less than 20 hours nor more than 30 hours. Upon approval of the Head of the Department in which the major work is done, closely related sciences may be offered to make up the twenty hours minimum.

The University Teachers' Certificate is granted only (1) to those who maintain an average of at least 80 per cent in their undergraduate work and (2) show special fitness for teaching. Special requirements of this certificate are:

1. The candidate must hold the Bachelor's or Master's degree from the University.

2. Completion of Philosophy 1 and 2.

3. Completion of 15 hours in Education as follows:

	Hours
Education 1 and 2 (History of Education).....	6
Education 4 (Child Study) or Educational Psychology 16.....	3 or 2
Educational Theory and Practice 21 or 22.....	3
Home Economics 13 and 14 (accepted in place of Education, Theory and Practice 23 or 24, 2 hours, Special Methods, 2 hours).....	4
Total.....	15

4. A major of not less than 24 hours and a minor of not less than 18 hours may be taken in the subjects of Domestic Science and Domestic Art.

The City State Teachers' Certificate for Supervisors in Home Economics. The requirements for this certificate are the same as above except that 12 hours instead of 15 hours are required in Education, and instead of 6 hours of History of Education 1 and 2, only three hours of this course or its equivalent in Educational Classics are required.

Advisers. At the time of his first registration each Freshman student in the College of Agriculture is assigned by the Dean to some member of the Faculty, who becomes his adviser during the Freshman year. When, at the beginning of his second year, a major subject is chosen, the head of the department in which the major work is taken becomes the adviser of the student until the time of his graduation. The dean of the college constitutes a head adviser for each student within the college. The Dean of Women is a special adviser to all women students in the college.

Absence or Withdrawal. A leave of absence for a short time may be granted a student by the Dean. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

ORDER OF COURSES IN THE GROUPS OF STUDY

THE AGRICULTURAL SCIENCE GROUP

FIRST YEAR	First Semester Hours	Second Semester Hours
Biology (Botany ¹ , Entomology or Zoology) (A and S) ²	3	3
Chemistry 1, 2, (A and S) ¹ or Agricultural Chemistry 101, 102.....	2	2
³ German or French (A and S) ²	5	5
Rhetoric 1, 2 (A and S) ²	2	2
Military Drill.....	1	1
⁴ Agricultural Subjects—		
First semester: Choice of Animal Husbandry 1 (Judging) and 3 (Study of Breeds), Agronomy 1 (Forage Crops), Horticulture 1, Dairy 1 (Prin- ciples of Dairying), Agricultural Engineering 9 (Wood Work) or Geography 1.....	3 or 4	
Second Semester: Choice of Animal Husbandry 2 (Judging), and 4 (Live Stock Feeding), Agron- omy 2 (Cereal Crops), Horticulture 2, Dairy 2 (Milk Production), Agricultural Engineering 10 (Forge Work) or Geography 2.....	2, 3, or 4	
	16 or 17	15 to 17

¹ Graduates of the School of Agriculture who have completed, in Botany, 9 hours' work in class and practice, shall take Botany 3 and 4; others shall take courses 1 and 2.

² Required courses not given in the College of Agriculture are marked with the initials of the College in which they are offered; e. g., (A and S) indicates that the subject is offered in the College of Arts and Sciences, (E) refers to the College of Engineering.

³ If four points entrance in foreign language have been presented, the student may substitute Agricultural or Academic subjects but language may later be required by the Head of the Department with whom the student does his major work.

⁴ The "Agricultural Subjects" include Agricultural Botany, Agricultural Chemistry, Agricultural Engineering, Agricultural Geography, Agronomy, Animal Husbandry, Dairy Husbandry, Forestry, Horticulture, Economic Entomology, Agricultural Education.

SECOND YEAR	First	Second
	Semester Hours	Semester Hours
¹ Agricultural Subjects.....	3	3
² German or French.....	5	5
Rhetoric 5 and 6 or English Literature (A and S) ³	3	3
Agricultural Chemistry 103, 104 or Physics 11 and 12, Biology (Botany, Entomology or Zoology) (A and S) ³	3	3
Military Drill	1 or 2	1 or 2
	15 or 16	15 or 16
THIRD YEAR		
¹ Agricultural Subjects.....	7	7
Electives.....	6	5
History, Political Economy or Philosophy (A and S) ³	3	3
	16	15
FOURTH YEAR		
¹ Agricultural Subjects.....	7	7
Electives.....	8	8
	15	15

AGRICULTURAL PRACTICE GROUP

Offered at the University Farm

This group is offered for students who can attend the College for only one or two years and for those who expect to return to the farm rather than enter teaching or research work.

FIRST YEAR	First	Second
	Semester Hours	Semester Hours
Required Subjects—		
Agricultural Chemistry 100D and 100E, or 101 and 102.....	3 or 2	3 or 2
Agricultural Botany 5 and 6 or Entomology 3 and 4.....	3	3
Rhetoric 1 and 2.....	2	2
Drill.....	1	1

¹ See foot-note (4) on p. 340.² See foot-note (3) on p. 340.³ See foot-note (2) on p. 340.

	First Semester Hours	Second Semester Hours
¹ Elective Subjects, to make 16 hours—		
Animal Husbandry 1 (Judging) and 3 (Breeds)...	4	
Animal Husbandry 4 (Feeding).....		2
Animal Husbandry 2 (Judging).....		2
Agronomy 1 (Forage Crops), and 2 (Cereals)....	4	4
Dairying 1 (Principles of Dairying) and 2 (Milk Production).....	3	3
Agricultural Engineering 9 (Wood Work) and 10 (Forge Work).....	3	3

No person can enter upon the second year of this group unless he has lived for one year upon a farm since he was fourteen years of age or has actual experience in some special line of farm or garden operations.

	First Semester Hours	Second Semester Hours
SECOND YEAR		
Required Subjects—		
Agricultural Chemistry 103, 104.....	3	3
Physics 11 and 12, Rhetoric 5 and 6, or Agricul- tural Subjects.....	3	3
Drill.....	1	1
² Elective Subjects, to make 16 hours—		
Agronomy (Soils) 7 and 8.....	4	4
Farm Management 3 and 4.....	3	3
Agricultural Engineering 1 (Farm Machinery) and 2 (Farm Motors).....	2	2
Animal Husbandry 5 (Feeding) and 6 (Animal Nutrition) or 2 (Judging).....	2	2
Animal Pathology.....	3	
Dairying 5 (Milk Testing) and 4 (Buttermaking)	2	1
Horticulture 1, 2 (Principles of Horticulture)....	3	3
Meteorology (Geography 4).....	2	
Lands (Geography 1).....	2	

All subjects offered at the University Farm, except Physics 11 and 12.

¹ Students taking this group must choose elective subjects in three Departments, with a view of continuing studies in at least one of these Departments throughout the second year as a basis for the selection of a Major subject.

² Students registering in a new Department at the beginning of the second year should be registered in the subjects offered by that Department in the first year.

THIRD YEAR	First Semester Hours	Second Semester Hours
Political Economy 1 (Principles of Political Economy) and 10 (Economic History of the United States) or 14 (Economics of Agriculture).....	3	2 or 3
Agriculture (in major subject).....	3 to 5	3 to 5
Rhetoric 5 and 6 or English Literature.....	3	3
History or Sociology.....	3	3
Agricultural Botany, Entomology or Zoology.....	3	3
Electives to make 16 hours.....	1 or more	1 or more

FOURTH YEAR

Agriculture to complete major subject.....		
Modern Language, English Literature, Sociology or Political Economy (two or three subjects).....	7	7
Electives to complete 125 hours for graduation.....	8	7

FORESTRY GROUP

FIRST YEAR

Forestry 1, 2.....	1	1
German 1, 2, or French 1, 2 or Spanish 31, 32 ¹	5	5
Botany 1, 2.....	3	3
Chemistry 1, 2 ¹	2	2
Rhetoric 1, 2 ¹	2	2
Geography 1, 2.....	2	2
Military Drill.....	1	1
	16	16

SECOND YEAR

Forestry 3, 4.....	2	3
German 3 or French 3 or Spanish 33 ¹	5 or 3	
Botany 13, 14.....	2	2
Botany 6.....		3
Mathematics 1.....	5	
Physics 11, 12 ¹	3	3
Geography 4.....		2
Lettering and Drawing ²		2
Military Drill.....	1	1
	16	16

¹ Given in the College of Arts and Sciences.² Given in the Engineering College.

	First Semester Hours	Second Semester Hours
THIRD YEAR		
Timber Physics ¹		2
Forestry 7, 8.....	2	2
Forestry 5.....	2	
Botany 19, 20.....	3	3
Surveying 5, 5a, 30 ¹	4	3
Rhetoric 5, 6 ²	3	3
Rhetoric 41.....	2	
Geology 31 ²		2
	16	15

FOURTH YEAR		
Forestry 11, 12, 12a, 12b.....	3	3
Forestry 14.....		3
Forestry 15.....	2	
Railway Surveying (Civil Eng. 8) ¹		3
Botany 21, 22.....	2	2
Forest Zoology 13 ² and Entomology 11.....	3	3
Geology 33 ²	2	
Electives ³	2	2
	14	16

PROFESSIONAL COURSE LEADING TO DEGREE OF MASTER OF FORESTRY

Forestry 17, 17a.....		1
Forestry 19, 20, 20a.....	3	3
Forestry 21, 22 (Thesis).....	2	2
Forestry 23, 24.....	2	2
Forestry 25, 26.....	2	2
Forestry 28.....		1
Forestry 30.....		1
Forestry 31.....	2	
Rhetoric 13, 14.....	3	3
Forest Mycology ⁴ (Botany 25).....	2	

¹ Given in the Engineering College.

² Given in the College of Arts and Sciences.

³ Agronomy 7 or 9 or both are recommended. Also American History 10.

⁴ Given in alternate years beginning 1913-1914.

HOME ECONOMICS GROUP

FIRST YEAR	First	Second
	Semester Hours	Semester Hours
Home Economics 1, 2 (Sewing and Textiles).....	3	3
Rhetoric 1, 2 (A and S) ¹	2	2
Chemistry 1, 2 (A and S) ¹	2	2
Language, Ancient or Modern (A and S) ¹	5	5
Art and Design 1 (A and S).....	3	
Art and Design 2 or Zoology 14.....		3
Physical Training.....	1	1
	—	—
	16	16
FIRST YEAR FOR STUDENTS WHO HAVE NO ENTRANCE CREDIT IN CHEMISTRY		
Home Economics 1, 2 (Sewing and Textiles).....	3	3
Rhetoric 1, 2 (A and S) ¹	2	2
Physical Training.....	1	1
Chemistry Da, 1 and 2 (A and S) ¹	3	4
Language (Ancient or Modern) (A and S) ¹	5	5
	—	—
	14	15
SECOND YEAR		
Home Economics 3, 4 (Foods: Selection and Preparation).....	3	3
Chemistry 3a (Organic) (A and S) ¹	4	
Chemistry 14 (Food and Sanitary) (A and S) ¹		5
² Botany 1.....	3	
Botany 2 or Zoology 14.....		3
English Literature 1 and 2.....	3	3
Physical Education 9.....		1
Physical Training.....	1	1
Entomology or Elective Subject.....	2	
	—	—
	16	16

¹ Given in the College of Arts and Sciences.² When Zoology 14 is taken after Botany 1, the requirement for biological science is fulfilled.

	First Semester Hours	Second Semester Hours
THIRD YEAR		
Home Economics 5, 6 (Advanced Food Study and Dietetics).....	3	3
Home Economics 7 and 8 (Textiles and Clothing)....	3	3
Bacteriology 2a (A and S) ¹		2
Physiology 1 and 2 (A and S) ¹	2	2
² Philosophy 1.....	3	
Philosophy 2 or Sociology or Political Economy.....		3
Electives.....	5	3
	—	—
	16	16
FOURTH YEAR		
Home Economics 9, 10 (Household Administration)...	3	3
Agricultural Engineering 17.....	1	
Education 4 (Child Study) or Educational Psychology 16 (A and S) ¹	3 or 2	
Fine Arts 1 (A and S) ¹	2	
History.....	3	3
Electives.....	4	9
	—	—
	16	15

¹ Given in College of Arts and Sciences.

² Philosophy 1 and 2 are required of candidates for the University State Teachers' Certificate. See page 338.

COURSES OF INSTRUCTION

Students are advised to consult the heads of departments before registering.

For additional courses that may be chosen to apply as "Electives" see "Courses of Instruction" of the College of Arts and Sciences, the College of Engineering, and the Teachers College.

Courses included between brackets are not given in 1914-1915.

AGRICULTURAL BOTANY

Professor Wilcox (*Head of Department*), Associate Professor Link, Assistant Professor McCormick, Instructor Rusk, Assistant Vasey

GENERAL INFORMATION

The offices, laboratories and lecture room are located in Plant Industry Hall. For use in the instructional work the department has a very extensive collection of lantern slides, charts, and other illustrative material. An extensive pathological herbarium and collection of economic plants are being developed as rapidly as possible. The large private library of the head professor of Agricultural Botany, particularly complete in phytopathology, is available for the use of advanced students. A greenhouse has recently been arranged and specially equipped for experimental work in physiology and pathology.

A limited number of advanced students with proper training can be offered exceptional opportunities for research work in phytopathology. In some cases it is possible for such students to receive compensation for work done in connection with problems being investigated by the department.

GRADUATE WORK

The department is especially prepared to offer graduate work in phytopathology and phytophysiology. To successfully undertake research work in these subjects students should have a broad training in botany, chemistry, and zoology; should be able to read French and German and should have taken at least six hours of work in this department. Before registering students should consult the head of the department.

FOR UNDERGRADUATES AND GRADUATES

1. **Elementary Plant Pathology**—A broad survey of the development and present condition of our knowledge of plant disease. Special attention will be given to diseases having their origin in malnutrition and unfavorable chemical and physical factors. The most typical and important diseases of our leading cultivated plants will be described in some detail. The laboratory work will acquaint the student with the current technique, including the preparation and use of culture media, the establishment of pure cultures and artificial inoculation. Three hours lecture. Eight hours laboratory. Five hours credit. Students are advised to take Agricultural Botany 7 and 8 before or with this course.

Wilcox

2. **Elementary Plant Pathology**—1 continued. Second semester.

3. **General Plant Pathology**—Prerequisite: Agricultural Botany 1, 2. An advanced course of lectures designed to furnish such a broad working basis as to enable one to engage in original research in plant pathology. The following are some of the subjects to be discussed: The physiology and cytology of resistance and immunity, origin of parasitism, specialization, epidemics and climatic factors, etc. Two hours lecture. Four hours reading. Two hours credit. First semester.

Wilcox

4. **General Plant Pathology**—3 continued. Second semester.

5. **Economic Botany**—The general principles of morphology and phylogeny are first developed as a basis for a survey of the classification, distribution, origin, and products of the economic plants of the world. Special attention is devoted to the weeds, forage plants and seed testing. Three hours lecture. Four hours laboratory. Five hours credit. First semester.

Wilcox, McCormick

6. **Economic Botany**—5 continued. Second semester.

7. **Plant Physiology**—A course of selected experiments supplemented by lectures, conferences and readings designed to acquaint the student with plant chemics, plant physics and the phenomena of growth and movement. Three hours lecture. Six hours laboratory. Five hours credit. First semester.

Link

8. **Plant Physiology**—7 continued. Second semester.

9. **Pathological Anatomy**—A thorough study of the structures and activities of the plant cell in pathological tissues. A comprehensive study of the morphogenic influence of various unfavorable factors. Two hours lecture. Four hours laboratory. Three hours credit. First semester.

Wilcox, McCormick

10. **Pathological Anatomy**—9 continued. Second semester.

11. **Special Morphology of the Fungi**—The morphology, phylogeny, physiology and life history of the principal groups of the fungi. Three hours lecture. Four hours laboratory. Five hours credit. First semester.
Wilcox

12. **Special Morphology of the Fungi**—11 continued. Second semester.

13. **Problems in Plant Pathology**—Prerequisite: Courses 1, 2. Assigned problems in plant pathology. Laboratory work with hours for consultation. Two to five hours credit. First semester.
Wilcox

14. **Problems in Plant Pathology**—13 continued. Second semester.

15. **Problems in Plant Physiology**—Assigned problems in the nutrition, growth, irritability or reproduction of plants. Laboratory work with hours for consultation. Two to five hours credit. First semester.
Wilcox, Link

16. **Problems in Plant Physiology**—15 continued. Second semester

SCHOOL OF AGRICULTURE COURSES

A. **Elementary Agricultural Botany**—This course offers a general introduction to the science of botany. The students will become acquainted with the general morphology of the flowering plants. This will be accompanied by laboratory studies of the structure and activities of the plant cell and the principal tissues. Three hours lecture. Two hours laboratory. First semester.

B. **Elementary Agricultural Botany**—Elementary study of types of plants selected as far as possible with reference to their economic value in agriculture. Three hours lecture. Two hours laboratory. Second semester.

C. **Elementary Plant Physiology**—An elementary study of the growth, nutrition, irritability and reproduction of plants with special reference to the application of these facts to plant culture. Two hours lecture. Two hours laboratory. First semester.

D. **Elementary Plant Pathology**—An elementary study of the more common diseases of cultivated plants; the best methods of controlling these by spraying, proper methods of cultivation, use of resistant varieties, etc., will be discussed. Two hours lecture. Two hours laboratory. Second semester.

GENERAL BOTANY

Professor Bessey (*Head of Department*), Professor Pool, Assistant Professor Walker

1. **General Botany**—Introduction to the structure of plants (cells, tissues, tissue systems). General morphology, physiology, and classification of representative species, including blue-green and green algae. Three hours lecture. Six hours laboratory. Three hours credit. First semester.

Bessey, Walker

2. **General Botany**—The general morphology, physiology and classification of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester.

Bessey, Walker

13. **Flowering Plants**—Principles of the classification of Monocotyledons and their particular application to the grasses. Two hours lecture. Four to twenty hours laboratory work in the field and herbarium. Two to six hours credit. First semester.

Bessey

14. **Flowering Plants**—Principles of the classification of Dicotyledons and their particular application to the Composites. Otherwise as in course 13. Second semester.

Bessey

15. **Mycology**—A study of the fungi and of Mycological literature; classification; physiology, life history, parasitism, symbiosis, heteroecism, mycorrhiza, laboratory and field work. Three lectures, six hours laboratory. Three hours credit. First semester.

Walker

16. **Mycology**—The role of fungi and bacteria in the production of plant diseases, bacterial diseases, epidemics, physical and climatic factors; pathological technique. Three lectures, six hours laboratory. Three hours credit. Second semester.

Walker

19. **Plant Physiology**—An introductory study of the processes and functions of plants. Including imbibition; osmosis, absorption; the relation of the soil and of solutes to the plant; the movement of substances in the plant body; transpiration; guttation; bleeding; maintenance and bodily form; turgor, secretion, waste products. Three hours attendance. Six hours laboratory. Three hours credit. First semester.

Pool

20. **Plant Physiology**—Photosynthesis; the question of the manufacture and assimilation of food; stomatal relations; the nitrogen cycle; the storage and digestion of foods; respiration and fermentation; growth and movement with special reference to the influence of external factors

upon these phenomena; irritability; stimulus and response; correlation; reproduction of plants; death. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Pool

21. **Plant Ecology**—The relation of plants to their environment; adaptation; alternation and zonation; factors of the habitat; use of ecological instruments. Two lectures, six hours laboratory. Two hours credit. First semester. Pool

22. **Plant Ecology**—Mostly field work, with detailed studies and accurate observations. Two lectures, six hours laboratory or field work. Two hours credit. Second semester. Pool

25. **Forest Mycology**—A study of the fungi which attack forest trees: the role of fungi in the decay of timber. Two lectures, six hours laboratory or field work. Two hours credit. First semester. Pool

AGRICULTURAL CHEMISTRY

Professor Upson (*Head of Department*), Assistant Professor Plum, Assistant Professor Calvin, Instructor ———, Assistant Brother, Assistant Cadwell

The department of Agricultural Chemistry occupies quarters in Experiment Station hall. The main laboratories are devoted to general inorganic chemistry, elementary organic chemistry, qualitative and quantitative analysis and general agricultural chemistry. Several private laboratories are provided for instructors and advanced students engaged in research.

Two types of work are offered by the department of Agricultural Chemistry.

UNDERGRADUATE WORK

The first type comprises courses 100 D, 100 E, 101, 102, 103 and 104. These courses are designed to meet the needs of the students in Agriculture who desire a working knowledge of chemistry prerequisite to work in soils, agronomy, botany, dairying, etc.

GRADUATE WORK

The second type of work is designed for students who wish to specialize in one of the branches of agricultural chemistry with a view to teaching or taking up Experiment Station or Government work. Courses 115, 116, 117 and 118 are designed primarily for this class of students.

The opportunities for graduate work leading to advanced degrees are excellent. In order to pursue successfully advanced work in Agricultural Chemistry students must have had thorough training in inorganic, organic, analytical and physical chemistry. Students intending to specialize in this department are urged to acquire this preliminary training as early in their undergraduate course as possible. A reading knowledge of French and German is also required.

Courses 115, 116, 117, 118 are required for the Master's Degree. At least one year's resident work and the completion of a satisfactory piece of original investigation are also required. Students must also fulfil the general requirements of the University for the Master's Degree.

PRIMARILY FOR UNDERGRADUATES

100 D. General Inorganic Chemistry—Required of all freshmen in the College of Agriculture who present less than two points entrance credit in chemistry. This course covers the non-metallic and metallic elements and the fundamental principles of chemistry. The conceptions of chemical equilibrium and of the modern theories of solution are freely used. Four hours lecture. Eight hours laboratory. Four hours credit. First semester.
Plum, Assistants

100 E. Elementary Qualitative Analysis—Same as course 101 and 102 combined. Prerequisite 100 D or two points entrance credit in Chemistry. Four hours lecture. Eight hours laboratory. Four hours credit. Second semester.
Plum, Assistants

101. Elementary Qualitative Analysis with review of general chemistry. The first two months will be devoted to a review of the subject matter of general chemistry after which the subject of qualitative analysis will be taken up. Two hours lecture. Four hours laboratory. Four hours preparation. Three hours credit. First semester. Plum, Assistants

102. Elementary Qualitative Analysis—Continuation of course 101. Lectures and recitations on the principles and practice of qualitative analysis. Considerable emphasis is laid on the application of the laws of chemical equilibrium and of the theories of solution and electrolytic dissociation to the practical problems of the analyst. The laboratory work consists of a study of the more important tests used in qualitative analysis followed by work in the qualitative examination of salts, minerals, soils and agricultural products. Two hours lecture. Four hours laboratory. Four hours preparation. Three hours credit. Second semester.

Plum, Assistants

103. Elementary Organic Chemistry—Prerequisite course 102. The course comprises lectures and quizzes which are to a certain extent experimental and deals with the more important classes of compounds of both the aliphatic and aromatic series. The course is designed to meet the needs of the students in the College of Agriculture but serves also as a general introduction to more advanced work in organic chemistry. In the laboratory a number of simple organic compounds are prepared with a view to furnishing by the fewest illustrations possible, the largest variety of typical reactions and manipulations. Three hours lecture. Six hours laboratory. Six hours preparation. Five hours credit. First semester.

Upson, Assistants

104. General Agricultural Chemistry—A general course dealing in a nontechnical manner with the chemistry of soils and fertilizers, the chemistry of plant products and plant growth, the chemical composition of foods and feeding stuffs and agricultural products in general, and the chemistry of animal nutrition. This course is designed especially for students in the College of Agriculture who do not wish to specialize in Agricultural Chemistry. Prerequisite course 103. Three hours lecture. Six hours laboratory. Six hours preparation. Five hours credit. Second semester.

Upson, Calvin, Assistants

115. Analysis of Agricultural Products—A course in the quantitative analysis of grain, flour, fodders, fruits and dairy products. Prerequisite courses 101, 102, 103, 104 in this department and courses 7 and 8 in Chemistry or their equivalent. One hour attendance. Five to fifteen hours laboratory. Two to five hours credit. First semester.

Upson, Assistant

116. Analysis of Soils and Fertilizers—Prerequisite same as for course 115. Second semester. Two to five hours credit, depending on amount of time spent.

Upson, Assistant

117. Research in Agricultural Chemistry—Open only to graduates on consultation with the Head of the Department. Considerable latitude is allowed in the selection of problems for investigation. The exact nature of the problem depends on the student's previous training and on the lines of investigation in progress at the Experiment Station. Prerequisite courses 115 and 116 or equivalent and a reading knowledge of French and German. First and second semesters.

Upson

118. Research in Agricultural Chemistry—117 continued.

GENERAL CHEMISTRY

(See the Bulletin of the College of Arts and Sciences.)

AGRICULTURAL EDUCATION

Professor Bradford (*Head of Department*)

1. **Agricultural Education**—The educational value of industrial, and especially agricultural training; industrial training as applied to Nebraska and Nebraska problems; the part which the schools, rural and town, should take in education for rural life; courses of study and material for agricultural instruction in both rural and high schools; study of the preparation of the teachers for this work. Junior or senior year. First semester. Two hours attendance. Two hours credit.

Bradford

AGRICULTURAL ENGINEERING

Professor Chase (*Head of Department*), Assistant Professor Seaton, Assistant Professor Baer, Assistant Professor Brackett, Mr. Wood, Mr. Moore

PRIMARILY FOR UNDERGRADUATES

1. **Farm Machinery**—The practical study of all lines of agricultural implements, tillage, seeding, harvesting, threshing, and fertilizing machinery. One hour attendance. Two hours preparation. Three hours laboratory. Two hours credit. First semester.
- Chase, Brackett
2. **Farm Motors**—The practical study of farm motors, the horse, windmill, steam boilers, steam engines, traction engines, gasoline engines, electric motors. One hour attendance. Two hours preparation. Three hours laboratory. Two hours credit. Second semester.
- Chase, Seaton
5. **Wood Work and Interior Finishing**—Practice at the bench with light carpenter tools and the care of edged tools for the home. Work in the construction of furniture, painting, oiling, and finishing the same. Instruction in the planning of the home, the designing, selecting and care of the interior finish. One hour attendance. Two hours practice. One hour credit. For women only. First semester.
- Baer
6. **Spraying Machinery**—The designing of spraying outfits, practice with the gasoline engine, mixers and pumps and a study of nozzles. Three hours laboratory. One hour credit. First semester.
- Brackett
18. **Wood Work and Interior Finishing**—Continuation of course 5 but with hard woods. Prerequisite: Course 5. One hour attendance. Two hours practice. One hour credit. (For women only). Second semester.

9. **Carpentry**—Practice with the care, use and adjustment of tools, exercises in bench work, farm equipment and farm building construction. Lectures on the cutting, selecting, milling and durability of timbers. One hour attendance. Eight hours laboratory. Three hours credit. Baer

10. **Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbitting, chipping and repairing of farm machinery. Lectures on metallurgy of iron and steel, on wheelwright and shoeing. One hour lecture. Eight hours attendance. Three hours credit. Moore

FOR UNDERGRADUATES AND GRADUATES

3. **Rural Architecture**—Design and arrangement of farm buildings and equipment, laying out of fields with respect to farmstead. One hours attendance. Two hours preparation. Six hours laboratory. Three hours credit. First semester. Chase, Wood

4. **Farm Drainage and Rural Highways**—Field and class work in land drainage, laying out of drainage systems, practical work in cement tile making, studies in drainage law, organization of districts and computation of cost estimates. The second half of the semester is devoted to a study of Nebraska roads and road laws, road constructions, reconstruction and maintenance. One hour attendance. Two hours preparation. Six hours laboratory. Three hours credit. Second semester. Wood

13. **Automobiles, Theory and Practice**—A study of automobiles and motor truck engines, ignition systems, carburetors, transmissions and differentials and the care and use of such machines. Two hours recitation. Four hours preparation. Three hours laboratory. Three hours credit. First and second semesters. Seaton

17. **House Planning**—A course in house design. Lectures cover arrangement of rooms, heating, lighting, ventilation, plumbing, sewage disposal, water works, fire places, stairways, labor-saving devices, etc. To be taken in connection with Home Economics 9. One hours attendance. Two hours drawing. One hour credit. Wood

20. **Normal Course in Manual Training**—An advanced course in carpentry which deals with laboratory equipment for small and large classes, with planning courses, with designing and working up exercises. Three hours laboratory. Three hours outside work. Two hours credit. Second semester. Baer

SCHOOL OF AGRICULTURE COURSES

- A. **Wood Work**—Practice with the care, use and adjustment of tools. Exercise in bench work. One hour attendance. Three hours laboratory. First semester. Baer
- B. **Wood Work**—Farm building construction. Prerequisite: Course A. One hour attendance. Three hours laboratory. Second semester. Baer
- C. **Forge Work**—Practice in forging, welding, tempering, pipe fitting, babbitting, and repairing of machinery. One hour attendance. Three hours laboratory. First semester. Moore
- D. **Forge Work**—Continuation of course C. Prerequisite: Course C. One hour attendance. Three hours laboratory. Second semester. Moore
- E. **Farm Machinery**—A study of all lines of agricultural implements, tillage, grading, seeding, harvesting, pumping, and fertilizing machinery. One hour attendance. Three hours laboratory. First and second semesters. Chase, Brackett
- F. **Farm Motors**—Continuation of course E with the addition of work with windmills, steam boilers, steam engines, gasoline engines, and traction engines. The determination of brake horse power and other tests in farm motors. One hour attendance. Three hours laboratory. First and second semesters. Chase, Seaton
- G. **Rural Architecture**—The elementary study of farm buildings and equipment, fences, sewerage, heating, lighting, etc. Practice at drawing, designing and practical cement work. One hours attendance. Three hours laboratory. First semester. Wood
- H. **Rural Architecture**—Continuation of course G. One hour attendance. Two hours laboratory. Second semester. Wood
- I. **Wood Work and Finishing** (For women only)—Practice with use, care, and adjustment of tools. Interior construction. Painting, oiling, and staining of woods. One hour attendance. Two hours practice. First semester. Baer
- J. **Wood Work and Finishing** (For women only)—Continuation of course I. One hour attendance. Two hours practice. Second semester. Baer
- K. **Automobiles**—A study of general design, with a detailed study of engines, ignitors, starters, carburetors, transmissions, differentials and tires. Practice in repairing and overhauling with demonstrations in operation. Two hours attendance with preparation. Three hours laboratory. First semester. Seaton
- L. **Automobiles**—A continuation of course K. Two hours attendance with preparation. Three hours laboratory. Second semester. Seaton

AGRONOMY, EXPERIMENTAL

Professor Kiesselbach (*Head of Department*), Assistant Professor Ratcliff,
Mr. Helm

Offered primarily to graduates who wish to specialize in Experimental Agronomy. Students taking these courses must have completed all general courses in Agronomy and Farm Management and must spend the summer assisting in experimental work.

1. **Investigation**—Satisfactory work on some special line of investigation with assigned readings. Six to twenty hours laboratory. Thesis required. Two to five hours credit. First semester. Kiesselbach

2. **Investigation**—Continuation of 1. Second semester.

3. **Methods of Investigation**—Compilation of experimental data. Correlation tables. Statistical methods. Six to twenty hours laboratory. Two to five hours credit. Kiesselbach

4. **Methods of Investigation**—Continuation of 3. Second semester.

AGRONOMY, INSTRUCTIONAL

Professor Barker (*Head of Department*), Associate Professor Hopt, Assistant
Professor Young, Mr. Keim

Students should have at least one year's work in Botany, Chemistry, Geology and Geography. Courses are offered to meet the needs of (1) those students taking general culture courses, or interested in farm operations or the management of land; (2) those fitting themselves to be agricultural teachers or investigators.

Excellent opportunities are offered for graduate students who desire to take up research work. Training in natural and physical sciences is necessary for students taking graduate work. Lines of research work are open to students of this class upon consultation with the head of the department.

1. **Forage Crops Management**—An elementary and general course in the management of common and important forage crops with special reference to Nebraska conditions. Classification, distribution and adaptability of common forage plants. Methods by which good seed may be secured. Seeding, care, harvesting and best use of forage crops, including

those used for pasture, studied in considerable detail. Special attention given to identification of forage crop plants and seeds—also of the more common or dangerous adulterants and weed seeds found in same. Two hours lecture. Four hours laboratory. Six hours preparation. Four hours credit. First semester. Hopt, Assistants

2. **Cereal Crop Management**—Classification and methods of improvement of cereal crops, their adaptability and distribution, time and methods of seeding, harvesting, and cultivating, with special reference to Nebraska conditions. Laboratory practice in describing, scoring, judging and inspecting cereals by use of outlines and score cards. Methods of breeding to improve these cereals. Two hours lecture. Four hours laboratory. Six hours preparation. Four hours credit. Second semester. Hopt, Assistants

3. **Forage Crop References**—Assigned forage crop readings. A thorough study of Hunt's "Forage and Fiber Crops in America," also of various assigned readings in other texts and bulletins. These text studies and readings are essentially those required as supplementary work in Agronomy 1. Open only to the School of Agriculture students who have completed courses A, B, C, and D and those whose record in the department are entirely satisfactory. Two hours attendance. Four hours preparation. Two hours credit. First semester. Hopt

4. **Cereal Crop References**—Hunt's "Cereals in America" readings and prerequisites as required in Agronomy 2. Two hours attendance, Four hours preparation. Two hours credit. Second semester. Hopt

5. **Advanced Field Crops**—Grouping of all field crop plants in the order of their natural relationship. Origin, domestication, and evolution of field crop plants. Field crops in relation to food supply and human progress. History and evolution of field crops practice. Contemporaneous farming in the various sections of the United States. Special and minor crops in Nebraska. Special phases of field crops practice. Enemies of field crops. Problems and methods in field crops teaching, breeding and experimentation. Lectures, readings and consultations. Prerequisites: Courses 1, 2, 7 and 8. Two hours attendance. One to thirteen hours preparation. One to five hours credit. First semester. Hopt

6. **Advanced Field Crops**—5 continued. Second semester.

7. **Soils**—A general elementary course in the study of soils from the viewpoint of plant growth or crop production. Origin, formation, classification; chemical and physical properties of surface soils and subsoils;

organic and inorganic constituents; organic matter, humus, nitrogen and their immediate importance to economic crop production; soil water—functions, crop requirements, forms, availability, movements and control; dry farming; land drainage; micro-organisms—functions, distribution, conditions for development, nitrification, symbiotic and non-symbiotic nitrogen fixation, aerobic and anaerobic fermentation; soil air; soil temperature; tillage—implements, methods, objects; soil areas with special reference to Nebraska soils—their climate especially rainfall and temperature, soils, crop production and their economic management; arid; semi-arid, and humid regions; acid and alkali soils; wind and water erosion; farm manures, crop residues; commercial fertilizers; crop rotation; Nebraska soil problems. The laboratory exercises are designed to give a more detailed study of the most important phases of soils discussed in the lecture room. The exercises include the following studies: surface soils and subsoils under field conditions; soil regions, geological formations, temperatures and rainfall of Nebraska; soil classification; microscopic examinations; important soil farming minerals and rocks; soil air; soil water under field and laboratory conditions including hygroscopic, percolating and capillary forms; methods of testing acidity and basicity; effect of lime, sand, organic matter, alternate freezing and thawing, and alternate wetting and drying on soil structure; effects of color, water, vegetation, topography and cultivation on soil temperatures; tenacity of soils; power of soils to absorb water and gases; transference of heat; specific heat; absolute and apparent specific gravity under laboratory and field conditions; porosity; mechanical analysis and determination of humus and organic matter of the important soil types of Nebraska. Two lectures per week. Four hours laboratory. Six hours preparation. Four hours credit.

Barker, Young, Assistants

8. Soils—7 continued. Second semester.

11. Soil Management—Principles governing the management of land, crop systems, tillage, rotations, manuring, fertilizing, drainage and aeration. Prerequisites: Courses 1, 2, 7 and 8. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Barker

11a. Soil Management Laboratory—Given in connection with 11. Treating of principles governing the management of land from the practical standpoint. Four hours attendance. Two hours preparation. Two hours credit. First semester.

Barker

12. Soils of the United States—A study of the fourteen soil provinces of the United States, discussing the important types of soil found in each

as to their crop adaptation; physical and chemical characteristics; origin and general management. The soils of the corn belt and of Nebraska are especially emphasized. Prerequisites: Courses 1, 2, 7 and 8. Two hours attendance. Four hours laboratory and preparation. Two hours credit. Second semester. Barker, Young

13. **Soil Fertility**—Factors influencing the productive capacity of lands. Lectures, readings, and laboratory. Credit according to work. To be arranged with head of department. Prerequisites: Courses 1, 2, 7 and 8. First semester. Barker

14. **Soil Fertility**—13 continued. Second semester.

17. **Agricultural Examination of Soils**—A course designed to study soils in the field. Soil mapping and analysis; methods of determining their needs, their improvement and management. Prerequisites: Courses 1, 2, 7, 8, 13, 14. Four hours attendance. Two hours credit. First semester. Barker, Young

19. **Agronomy** (Agriculture)—A general, elementary course in Farm Soils and Field Crops. Designed primarily for superintendents, principals and teachers who are interested in the promotion of agricultural education in their schools. It is intended to present as much as possible of semestral courses 1, 2, 7 and 8 which are the fundamental courses of the department. Five lectures per week. Ten hours preparation. Ten hours laboratory. Four hours credit. Summer Session. Barker, Hopt

20. **Agronomy** (Agriculture)—19 continued. Prerequisites Agronomy 19 or by permission. Designed for those who have taken course 19 and wish further work in Agronomy. Summer Session. Barker, Hopt

21. **Field Course in Agronomy**—Designed for those students who wish to study some agronomy problem or problems in the field during the growing season. Excellent opportunities are offered for studies in soil moisture, fertilizers and manures, field crop plants and their habits, etc. Thorough readings and a thesis must accompany each problem. Prerequisites: Courses 1, 2, 7 and 8 or by permission from the head of the department. Credit according to work performed. Summer Session. Barker

22. **Teacher's Course in Agronomy**—Designed for those who are preparing to teach agronomy in colleges and secondary schools. Ways and means as well as pedagogical principles of Agronomical instruction. Prerequisites: courses 1, 2, 7 and 8. Two lectures per week. Four hours preparation. Two hours credit. Second semester. Given during the Summer Session. Barker Hopt

24. **Seminar**—Presentation and discussion of manuscripts on various agronomical subjects. One hour attendance. Two hours preparation. One hour credit. Prerequisites: Courses 1, 2, 7 and 8. Seniors and Graduate students. Second semester. Barker, Hopt, Young

SCHOOL OF AGRICULTURE COURSES

A. **Crop Management**—Adaptation, improvement, production and best use of the principal cereal and forage crops with special reference to Nebraska conditions. Three hours attendance. First semester. Hopt

B. **Crop Management**—A continued. Second semester.

C. **Crop Laboratory**—Must be taken with A. Identification of the plants, fruits and seeds of the more common field crops of Nebraska, including the important cereals, forage grasses and legumes. Judging and commercial grading of the cereals. Selection, care and testing which make for pure viable seed. Common field crop enemies and means of combating same. Four hours laboratory. First semester. Hopt, Assistants

D. **Crop Laboratory**—C continued. Must be taken with B. Second semester.

E. **Advanced Crop Laboratory Practice**—An optional course for students wishing to go further into field crop study than is possible in the more elementary courses A, B, C and D. Of special interest to men who wish to raise seed for others as well as for themselves, or who desire to grow new varieties or improved strains to meet peculiar local conditions. Two hours laboratory. First semester. Hopt

F. **Advanced Crop Laboratory Practice**—E continued. Second semester.

G. **Farm Soils**—A general elementary course in the study of soils from the viewpoint of crop production. The relation between crops and soils; origin, formation, classification; characteristics of surface soil and sub-soil in humid, sub-humid, semi-arid and arid regions; relation of climatic conditions to the crop producing power of soils. Chemical nature of soils, essential plant-food elements, chemical analysis, and availability of plant-food constituents; farm manures, composition, conditions affecting composition, care, fertilizing value and methods of use; commercial fertilizers, kinds, supply and use; fertility of Nebraska soils. The organisms of the soil, decay and putrefactive fermentation; the nitrogen cycle, nitrification, symbiotic and non-symbiotic nitrogen fixation; plant-foods rendered available and lost through bacterial action. Physical nature of soils; text-

ure; structure, conditions affecting and modifying it; physical effects of addition of lime, organic matter, and fertilizers; soil air; weight and porosity; soil moisture, forms, amounts, availability, losses and conservation; and mechanical analysis of soils. Management of sandy and clay soils; methods of tillage, wind and water erosion; crop rotations and dry farming with special emphasis on Nebraska conditions. Two hours attendance. First semester. Young and Assistants

H. **Farm Soils**—G continued. Second semester.

I. **Soil Laboratory**—The laboratory exercises are outlined to emphasize the most important soil principles discussed in the class room. A study of surface soil and subsoil in the field; soil regions, geological formations and rainfall of Nebraska; important soil forming minerals and rocks; microscopic examinations of soils; flow of air through soils; effect of lime, sand, organic matter, alternate freezing and thawing, and alternate wetting and drying on soil structure; soil water, capillary, percolating and hygroscopic; power of loose and compact soils to retain water; absorptive power; effect of color, water, vegetation, slope and cultivation on temperatures; volume density and porosity; and classification of soils. To be taken with G. Two hours laboratory. First semester. Young, Assistants

J. **Soil Laboratory**—I continued. To be taken with H. Second semester.

K. **Principles of Soil Management**—Soil as a medium for crop growth, soil moisture, plant food, air and temperature of the soil; farm manures, liming, drainage and alkali soils. Designed for those who wish to elect more soil work in the senior year than that presented in course G, H, I and J. Two hours attendance. First semester. Barker

L. **Principles of Soil Management**—K continued. Second semester.

M. **Advanced Soil Laboratory**—Must be taken with K. More advanced work in soil physics; soil air; soil water under field and laboratory conditions including percolating, capillary and hygroscopic forms; absolute and apparent specific gravity and pore space of field and laboratory soils; water retaining capacity of soils; specific heat; transference of heat; absorption of moisture and gases; mechanical analysis; determinations of humus and organic matter; methods of testing for nitrates and phosphoric acid. Two hours laboratory. First semester. Barker, Young, Assistants

N. **Soil Laboratory**—M continued. Second semester.

O. **The Teaching of Agronomy**—A special course designed for students of the School of Agriculture electing the "Normal Training Group." Elements of Agronomy. Pedagogical training in the clear presentation of Agronomic principles. Simple, practical lessons in Soils and Field Crops which are suited to the use of the average rural or high school. Two hours recitation. Four hours laboratory. Second semester. Barker, Hopt

ANIMAL HUSBANDRY

Professor Bliss (*Head of Department*), Associate Professor Lee, Adjunct Professor Carpenter,¹ Mr. —————

PRIMARILY FOR UNDERGRADUATES

1. **Judging Live Stock and Study of Breeds**—Includes the comparative judging of market and breeding types of cattle and hogs. A study of the breeds of horses, cattle, sheep and hogs. Methods of development. Characteristics and adaptability. Pedigree work. Two hours lectures. Four hours judging. Six hours preparation. Four hours credit. First semester. Lee

2. **Judging Live Stock**—Includes the comparative judging of market and breeding types of horses and sheep. Four hours judging. Two hours preparation. Two hours credit. Second semester. Lee

4. **Live Stock Feeding**—Methods of feeding all classes of farm animals. The compounding of rations. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Bliss, Lee

5. **Animal Nutrition**—Methods employed in conducting experimental feeding. A study of experiment station bulletins. Preparation of coarse fodders. Grinding, steaming and cooking of feeding stuffs. A study of feeding standards. Prerequisites: Course 4 and Chem. 1; Chem. 2 required or can be taken at the same time. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bliss, Lee

6. **Animal Nutrition**—General composition of the animal body. Digestion, absorption, metabolism, and secretion. Influence of food on animal form and on quality of meat and milk. Prerequisites: Course 5 and Chem. 3. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Bliss, Lee

¹ Deceased.

7. **Animal Breeding**—Embraces general principles of breeding, selection, and heredity. Includes a historical study of old and modern theories. Prerequisites: Course 1 and Zoology 1, 2. Two hours attendance. Four hours preparation. Two hours credit. First semester. Lee

8. **Animal Breeding**—Discussion of recent results along the line of animal breeding. Practical points in breeding. Study of line breeding and inbreeding. Attention given to importing and breeding laws. Study of herd book regulations. Prerequisite: Course 7. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Lee

9. **Judging Live Stock**—Advanced course in judging with special attention given to the study of breed type. Prerequisites: Courses 1 and 2. Two hours attendance. One hour preparation. One hour credit. First semester. Bliss

10. **Judging Live Stock**—Continuation of 9. Prerequisite: Course 9. Two hours attendance. One hour preparation. One hour credit. Second semester. Bliss

11. **Judging Live Stock**—Continuation of 9 and 10, with especial attention given to comparison and judging of animals of different ages and also of group judging. Prerequisite: Course 10. Two hours attendance. One hour preparation. One hour credit. First semester. Bliss

12. **Animal Husbandry—Seminar**—Prerequisites: Courses 4, 5, 6, 7, 8. Two hours attendance. Two to four hours preparation. One or two hours credit. Second semester. Bliss, Lee

13. **Live Stock Management**—Care and management of the breeding herd of cattle and hogs. Prerequisite: Course 4, unless otherwise arranged. Two hours attendance. Four hours preparation. Two hours credit. First semester. Bliss

14. **Live Stock Management**—Continuation of 13. Care and management of the breeding herd of horses and sheep. Prerequisite: Course 4, unless otherwise arranged. Four hours preparation. Two hours attendance. Two hours credit. Second semester. Bliss

SCHOOL OF AGRICULTURE COURSES

A. **Judging Live Stock**—Practice with the score card. Competitive judging of market types and classes, by ages, of cattle, sheep, and swine. Selecting animals for feeding purposes. Also judging meat carcasses. Four hours laboratory. First semester.

B. Judging Live Stock—Judging of breeds of horses, cattle, sheep, and swine by comparative methods. Special attention given to breed type and breed characteristics of animals. Four hours laboratory. Second semester.

C. Breeds of Live Stock—History of different breeds of live stock; methods of development of breeds; characteristics and adaptability of improved breeds. Four hours attendance. First semester.

D. Breeds of Live Stock—Same as Course C. Second semester.

F. Feeding Animals—Elementary live stock feeding; methods of feeding all classes of farm animals; the compounding of rations. Four hours attendance. Second semester.

H. Judging Live Stock—Advanced course for third year students. Prerequisite: Courses A and B. Four hours laboratory. Second semester.

I. Principles of Animal Breeding—Elective. An elementary study of fundamental principles of reproduction, heredity, variation, selection, and prepotency; also a consideration of practical problems in animal breeding. Two hours attendance. First semester.

ANIMAL PATHOLOGY

Professor Gain (*Head of Department*), Associate Professor Sturdevant

1. Diseases of Farm Animals—Causes and prevention of animal diseases. Emergency treatment and minor surgery. Three hours attendance. Six hours preparation. Three hours credit. First semester. Gain

SCHOOL OF AGRICULTURE COURSES

A. Anatomy and Physiology—Study of skeletons of horse and ox. Anatomy of digestive system and physiology of digestion. Circulatory system and study of blood. Two hours attendance. First semester. Sturdevant

B. Anatomy and Physiology—Respiration. The nervous system. The senses. The foot. Generation and development. Two hours attendance. Second semester. Sturdevant

C. Diseases of Farm Animals—Hereditary diseases. Diseases of respiratory system. Prevention of digestive diseases. Minor emergency surgery. Prerequisite: Anatomy and Physiology A and B. Three hours attendance. First semester. Gain

D. Diseases of Farm Animals—Contagious diseases. Hygiene and Farm Sanitation. Three hours attendance. Three hours credit. Second semester. Gain

E. Elements of Physiology—Bones of skeleton. Digestion. The circulatory system. Respiration. The senses. Drugs and stimulants. Two hours attendance. First semester. Sturdevant

F. Hygiene and Sanitation—Personal hygiene. Domestic hygiene. Ventilation and water supply. Public hygiene. Two hours attendance. Second semester. Sturdevant

E and F. (Offered in the course for women in the School of Agriculture.)

DAIRY HUSBANDRY

Professor Frandsen (*Head of Department*), Assistant Professor Woodward, Mr. Jensen, Mr. Markham

1. Principles of Dairying—The object of this course is to give such fundamental training in dairying as will be of practical value to the student and at the same time prepare him for more thorough work in the dairy courses which follow. This course will deal with the characteristics and composition of milk, factors influencing the amount and composition of milk, physiology of milk secretion, breeds of dairy cattle, testing of milk and cream by the Babcock method, cream separation, cream ripening, principles of buttermaking and dairy sanitation. Two hours attendance. Four hours preparation. Three hours laboratory. Three hours credit. First semester. Frandsen, Jensen

2. Milk Production—This course covers the field of Dairy Husbandry in its relation to the producer. It consists of two lectures a week and one laboratory period devoted to judging of dairy cattle. The lectures cover matter relating to the leading breeds of dairy cattle, their characteristics and adaptation for dairy purposes; the selection, breeding and building up of the dairy herd; selection of the dairy sire; calf raising; proper care of dairy cattle; the dairy barn; use of silo; a thorough study of the composition and relative food value of the leading dairy feeds and the feeding of dairy animals with special reference to economical milk production. Instruction in judging dairy cattle will consist of a study of the dairy type and characteristics of the various dairy breeds. Two hours attendance. Three hours laboratory. Three hours credit. Second semester. Prerequisite: Course 1. Frandsen, Woodward

4. **Butter Making**—This course includes a general study of milk secretion; composition of dairy products, separation and acidity of milk. The preparation of starters, ripening of cream, churning, and the packing of butter. Two hours attendance. Three hours laboratory. Three hours credit. Second semester. Prerequisite: Course 1. Frandsen, Jensen

5. **Dairy Bacteriology**—In this course the student studies the fundamental principles upon which is based the sanitary production and handling of milk, the relation of bacteria to the dairy industry in general, market milk, certified milk, sanitary milk, pasteurized milk, milk borne diseases, sources of contamination, normal and abnormal fermentations and their control. The course will deal with the bacteria more common to dairy products entirely from a practical standpoint. Prerequisite elementary bacteriology. One lecture and three hours laboratory a week. Two hours preparation. Second semester. Two hours credit. Jensen

6. **Dairy Judging**—The object of this course is to enable the student to fix in his mind the types of cattle that are profitable producers of dairy products. The greater part of the work is done by comparative judging, using the Ayrshires, Guernseys, Holsteins and Jerseys of the College herd and those of nearby herds. Three hours laboratory. One hour credit. Second semester. Prerequisite: Courses 1 and 2. Woodward

7. **Advanced Dairy Judging**—A continuation of course 6. One hour preparation and two hours laboratory. One hour credit. First semester. Prerequisite: Course 6. Frandsen, Woodward

8. **Ice Creams and Ices**—Elective in the Agricultural and Home Economics course. This course consists of a study of the manufacture of ice cream and ices. One hour lecture and three hours laboratory period. Two hours credit. Second semester. Frandsen, Markham

10. **Cheese Making**—A study of the importance of the quality and composition of milk in the manufacture of Cheddar Cheese; the principles involved in cutting, heating, milling, maturing, salting and pressing the curd, curing and marketing; influence of organized and unorganized ferments in cheese; the construction and ventilation of cheese curing rooms. This course also includes lectures and laboratory work in the manufacture and marketing of Brick, Cream and Cottage Cheese. One recitation and three-hour laboratory period. Two hours credit. Second semester. Jensen, Markham

12. **Domestic Dairying**—This course is especially arranged for students of the Home Economics course. The object of this course is to give the student some practical as well as scientific knowledge concerning the care

and preparation of dairy products for food purposes. The course includes lectures and laboratory work on the care of milk and cream; testing for fat, acidity, adulteration, preservatives and the general purity of milk and cream. Some work is also given in the manufacture of butter, cheese and ice creams. One hour attendance. Three hours laboratory. Two hours credit. Second semester. Frandsen, Jensen, Markham

14. Milk Testing and Inspection—This course consists of a study of Babcock's test for fat in milk and cream. It includes work with the various tests for moisture in butter, also a careful study of the methods for detecting preservatives and adulterations in dairy products, as well as the best methods of taking samples and of testing individual cows. This course also includes a careful study of the requirements necessary for the production of sanitary and certified milk. One hour attendance. Three hours laboratory. Prerequisite: Course 1. Two hours credit. First semester. Frandsen, Jensen

16. Dairy Management—The object of this course is to teach the student how best to apply the principles of Dairy Husbandry to individual farm conditions. This course will deal with the selection of the dairy farm, planning of the dairy farm, dairy farm buildings and equipment, selection and management of the dairy herd, selection of dairy feeds, disposal of dairy farm products and utilization of the by-products. Courses 1 and 2 and Agricultural Engineering course 3 prerequisite. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Frandsen, Woodward

17. Dairy Seminar—Elective in the senior year of the agricultural course. This course consists of a study of the work accomplished by the various experiment stations, also a review of the best foreign dairy literature. One hour attendance. One hour credit. German required. First semester. Frandsen

18. Dairy Seminar—This is a continuation of course 17. Second semester. Frandsen

SCHOOL OF AGRICULTURE COURSES

A. Elements of Dairying—The object of this course is to give such fundamental training in dairying as will be of practical value to the student and at the same time prepare him for more thorough work in the dairy courses which follow. This course will deal with the characteristics and composition of milk, factors influencing the amount and composition of milk, physiology of milk secretion, breeds of dairy cattle, testing of milk and cream by the Babcock method, cream separation, cream ripening,

principles of buttermaking and dairy sanitation. Two hours lecture. Four hours laboratory. First semester, first year.

Frandsen, Woodward, Jensen

B. Milk Production—The object of this course is to give practical instruction regarding the dairy cow on the farm, including adaptation of breeds, selection of breeds for various purposes, selection of individual cows by type and by butter fat records; feeding and care of cows for economical milk production. In this course some attention will also be given to testing of milk and cream. The Ayrshires, Holsteins, Guernseys and Jerseys of the College herd are used in demonstrating work in this course. Two hours lecture. Four hours laboratory. First semester, third year.

Woodward, Jensen

C. Farm Dairying—Includes lectures on milk secretion and milk testing. Composition of dairy products, separation and acidity of milk. The preparation of starters and ripening of cream, churning and packing butter. Two hours lecture. Two hours laboratory. Second semester, third year.

Woodward, Jensen

D. Domestic Dairying—This course is especially arranged for students in Home Economics. The object of the course is to give the student some practical as well as scientific knowledge concerning the care and preparation of dairy products for food purposes. The work in this course includes lectures and laboratory work on the composition, chemical and physical properties and food value of milk and other dairy products; care of milk and cream on the farm and in the home; testing for fat, acidity, adulteration, preservatives and purity of dairy products. Some work is also given in the manufacture of butter, cheese and ice cream. Two hours lecture and two hours laboratory. Required, first semester, junior year.

Markham

E. Domestic Dairying—A continuation of Domestic Dairying D. In this course the production of sanitary milk and the manufacture of dairy products are considered more in detail. Two hours lecture and two hours laboratory. Prerequisite Elementary Dairying or Domestic Dairying D. Elective, second semester, junior year.

Markham

ENTOMOLOGY

Professor Bruner (*Head of Department*), Professor Swenk, Mr. Dawson

GENERAL INFORMATION

The department maintains a laboratory fully equipped for the use of students engaged in research work along systematic lines, and a modern insectary well provided with apparatus useful in facilitating research in economic entomology, such as breeding cages, cameras, dark room and aquaria, for those investigating the life-histories of insects. The research laboratory is supplied with compound and dissecting microscopes, microscopical accessories, camera lucida, lanterns and slides and illustrative models and charts. A collection of insects numbering approximately 200,000 pinned specimens is well housed in special cabinets and Schmitt boxes and is available for study by advanced students; it is particularly rich in Hymenoptera, Diptera and Orthoptera and contains many specimens of these orders named by specialists, including a considerable number of their types. While the greater portion of the collection is representative of our state and national fauna, it is also exceedingly rich in exotic material from Argentina, Costa Rica, Mexico and the Philippine Islands collected by Professor Bruner on entomological excursions to these countries. The library contains practically complete files of all the American and the principal foreign entomological periodicals as well as most of the special monographs in the various orders, and is readily accessible to advanced students, while the excellent economic libraries of the State Entomologist and Nebraska Experiment Station are close at hand and available for reference. The results of studies carried on in the department are issued consecutively in a numbered series.

Courses 3 and 4 are open to all students, and they, or their equivalent, must precede all other college courses in entomology except 7, 8, 9, 10 and 11.

FOR UNDERGRADUATES

3. **Economic Entomology**—An introduction to the more practical phases of entomology, beginning with a consideration of the structure, physiology and metamorphosis of insects and a review of the insect orders, and following this with a presentation of the broad principles of insect damage and benefit, and the natural and artificial control of insects. Laboratory work involving the dissections of typical forms of the various orders and the rearing of insects, together with assigned readings correlated with

the lectures. Three hours attendance. Six hours laboratory and preparation. Three hours credit. First semester. Bruner

4. **Economic Entomology**—3 continued. In addition, studies of various groups of conspicuously injurious insects, emphasizing their life-histories and habits and the special preventives and remedies for them. Assigned readings correlated with the lectures, and in the spring observations of the work of injurious insects in the field. Three hours attendance. Six hours laboratory and preparation. Three hours credit. Second semester. Bruner

PRIMARILY FOR UNDERGRADUATES

5. **Systematic Entomology**—A close study of the principles and machinery of classification as applied to insects, involving a consideration of current taxonomic methods in entomology, of nomenclatural codes and of faunal areas, designed especially to acquaint the student with the literature of entomology and the approved methods of preparing data for publication as a foundation for research work in systematic entomology. Laboratory work with the various insect groups, designed to give a conception of the varying value of classificatory characters. Two hours attendance. Seven hours laboratory. Three hours credit. First semester. Swenk

6. **Systematic Entomology**—5 continued. In addition, a detailed study of entomological technique, involving methods of collecting, preparing and preserving insects for the cabinet and museum and the use of apparatus necessary in entomological work. Two hours attendance. Seven hours laboratory. Three hours credit. Swenk

7. **Agricultural Entomology**—A detailed study of the principal insects injurious to corn, the small grains, alfalfa and clover, grasses, the potato and the sugar beet, designed to give the student a thorough understanding of the means of control of all of the important pests of our cereal and forage crops, and a fund of practical information on the control of injurious insects in general. Assigned readings correlated with the lectures, and, wherever possible, actual field work in investigating insect pests. Two hours attendance. Seven hours preparation. Three hours credit. First semester. Swenk

8. **Agricultural Entomology**—7 continued. In addition, a similar detailed consideration of the principal insect enemies of the apple, stone fruits, grape and bush fruits, of garden vegetables, of domestic animals, of stored vegetable and animal products, and of the preparation and use of

insecticides and methods of spraying and fumigation. Two hours attendance. Seven hours preparation. Three hours credit. Second semester.

Swenk

9. **Apiculture**—A general survey of the subject, including a discussion of the structure, life-history, varieties and communal life of the honey bee; methods of handling bees, formation of colonies, controlling the colony growth, rearing of queens, honey and wax production, apiary paraphernalia and the symptoms, etiology and control of bee diseases and other enemies of bees. One hour attendance. Two hours directed reading. One hour credit. First and second semesters.

Bruner

10. **Domestic Entomology**—A brief general survey of insect life, emphasizing especially the insects affecting the household, such as silver fish, cockroaches, termites, house flies, mosquitoes, fleas, house ants, clothes moths, flour and meal pests, etc., with thorough discussions of means of control. Two hours attendance. Four hours directed reading. Two hours credit. First semester.

Swenk

11. **Forest Entomology**—Lectures and laboratory studies of the insects of the forest. Two hours attendance. Seven hours laboratory. Three hours credit. Second semester.

Bruner

(Courses 12 and 13 not to be given in 1914-1915).

14. **Seminary**—The seminary work of the department is carried on by the Nebraska Entomological Society, an association of students specializing in entomology and taking advanced or graduate courses, meeting at intervals for the presentation of papers and the discussion of current entomological literature. Time spent at these meetings and in the preparation of assigned papers or reviews may be applied as laboratory work.

PRIMARILY FOR GRADUATES

(These courses may be registered for repeatedly until the completion of the problem.)

15. **Research in Systematic Entomology**—Independent studies under the advice of the head of the department leading to the monographing of some genus, subfamily or family of insects or the detailed study of the insect fauna of Nebraska in one of the larger groups. First semester.

Bruner

16. **Research in Systematic Entomology**—15 continued. Second semester.

17. **Research in Economic Entomology**—Individual investigation of some special problem in economic entomology, usually the monographing of a species or group of species of economic importance. First semester.

Bruner

18. **Research in Economic Entomology**—17 continued. Second semester.

SCHOOL OF AGRICULTURE COURSES

A. **Farm Entomology**—Insects in their relation to Agriculture. For men. Two hours lecture. Two hours laboratory. First semester.

Swenk, Dawson

B. **Farm Entomology**—Course A continued, taking up the principal insect pests of our crops. Two hours lecture. Two hours laboratory. Second semester.

C. **Home Economics Entomology**—Insects in their relation to the household. For women. Two hours lecture. Two hours laboratory. First semester.

Swenk

D. **Home Economics Entomology**—Course C continued. Second semester.

E. **Brief Course in Home Economics Entomology**—An abridgment of courses C and D for students in the Normal Training Group. First half of first semester.

Swenk

F. **Farm Entomology**—An abridgment of courses A and B for students in winter course. Sixteen lectures.

Bruner

FARM MANAGEMENT

Professor Filley (*Head of Department*)

FOR UNDERGRADUATES AND GRADUATES

2. **Distribution of Farm Products**—This course deals with such problems as producers' and consumers' prices, wholesale and retail marketing, free delivery, parcels' post, competition, and co-operation. Open to all but freshmen. Two hours attendance, four hours preparation, two hours credit. Second semester.

Filley

3. **Farm Management**—Dealing with farm problems, such as farm location, capital, operating expenses, equipment, cost of production, systems of land tenure, size of farms, crop rotations, labor and marketing. Open

to juniors, seniors, and graduates, or by permission. Graduates of the School of Agriculture who have credit for Farm Management A may register in this course for two hours credit. Three hours attendance. Six hours preparation. Three hours credit. First semester. Filley

4. **Farm Management Seminar**—Prerequisite: Course 3. This course deals with problems in farm management and is a continuation of course 3. Special lines of investigation relating to farm management are taken up by the students. Three to fifteen hours meeting, preparation and library. One to five hours credit. Second semester. Filley

5. **Advanced Farm Management**—Prerequisite: Courses 3 and 4. A part of the work must be done in the field and may be done during vacation. It is designed to train the students for field work, and to give them a first hand knowledge of Nebraska farm conditions. It will involve a detailed study of the application of economic and scientific principles to the business management of the individual farm, taking an inventory and farm census, mapping out fields, comparison of various farms as to methods of management, or the student may work out a specific problem. Primarily for graduate students. Admission by consent of the instructor. Three to fifteen hours meeting, field work, tabulating of data and library. One to five hours credit. First semester. Filley

6. **Advanced Farm Management**—5 continued. Second semester.

7. **Farm Documents**—A course dealing with legal papers with which the farmer should have a working knowledge, such as deeds, mortgages, leases, negotiable instruments, etc. Some time will be devoted to those phases of rural law bearing most directly upon farm management problems. Two hours attendance. Four hours preparation. Two hours credit. First semester. Filley

8. **Farm Accounting**—A course dealing with the importance of keeping farm accounts, in which a simple and practical system will be discussed. The subject matter and the arrangement of the farmers' library will receive some attention. Two hours attendance. Four hours preparation. Two hours credit. Second semester. Filley

FORESTRY

Professor Morrill (*Head of Department*), Assistant Professor Childs

Course 1 is open to all students. Before electing other courses students should confer with the head of the department. Courses 5, 7, 8, 11, 12 and 15 may be taken by students in other departments; in addition to these

courses 23, 24 may be taken as minors by graduates who are candidates for advanced degrees in other departments. Advanced students desiring to elect Forestry Problems (Forestry 23, 24), or to pursue investigations along other forestry lines, may arrange the number of credit hours by consulting with the head of the department; no more than four credit hours will be allowed for this work in any one subject in one semester.

Course 17a is given by a state forester if feasible, otherwise by one of the forestry faculty. Courses 12a and 12b are given by Mr. William H. Mast. Through the courtesy of the United States Forest Service, the University is frequently able to announce special lectures on various forestry problems. Lumbermen and City Foresters are occasionally engaged for a few lectures. Special instruction is given in emergency surgery; and discussion and demonstration of camp equipment, camp cooking, and of packing on horses is offered. A special course is given in rhetoric designed to give the forestry student preparation for the writing of scientific reports on forestry subjects, the articles being corrected for English and structure in the Rhetoric Department and for Scientific accuracy in the Forestry Department. A virile well attended Forest Club is engaged in the study of various forestry topics and the Forestry department publishes annually a creditable forestry magazine.

A degree of Master of Forestry is given upon satisfactory completion of the courses scheduled for the fifth year. This presupposes a major in Forestry and a minor in Botany. If a minor in Entomology, in Engineering or in other departments is desired, the student should confer with the heads of both departments. In addition, one year's practical field experience in forestry will be required before granting the Master's degree. This may be accomplished by vacation work or by a year's continuous work. Such experience is essential to proper training of the student and should be as diversified as possible.

1. **General Forestry**—Treatment of forestry in a popular manner to give the general student a brief survey of forests and forestry in the United States and in foreign countries; relation of forestry to agriculture and to other industries. One hour attendance. Two hours preparation. One hour credit. First semester. Childs

2. **General Forestry**—Forestry in the United States in greater detail for students specializing in the subject. The elements of many forestry subjects are covered and the foundations are laid for more exhaustive development in succeeding courses. One hour attendance. Two hours preparation. One hour credit. Second semester. Childs

3. **Dendrology**—Identification and classification of the chief coniferous trees of the United States; their distribution, economic importance, silvical requirements. By lectures supplemented by lantern slides the characteristics of these trees in forest types are shown. Emphasis is placed upon practical methods for identifying the trees in the field. Two hours attendance. Four hours laboratory and field work. Two hours credit. First semester.

Morrill

4. **Dendrology**—A continuation of course 3 but pertaining to the chief broad leaf trees of the United States; their identification in the winter as well as in the summer. Three hours attendance. Six hours laboratory and field work. Three hours credit. Second semester.

Morrill

5. **Study of Woods**—A study of the structure of the important woods leading to their identification. The laboratory is supplied with specimens of the leading commercial woods of the United States and some of the imported woods. The physical properties of these woods, such as hardness, color, odor, grain, texture, density, are studied in relation to identification and to their economic value. One hour attendance. One hour reading. Four hours laboratory. Two hours credit. First semester.

Morrill

Applied Mechanics 20. **Timber Physics**—Primarily for forestry students. Prerequisite: Forestry 5. Physical and mechanical properties of wood; laboratory practice in ascertaining the properties of structural timber by bending, compression, shearing, torsion, impact, tension tests; relation of knots, moisture and structure of wood to strength. One hour attendance. One hour laboratory. Two hours credit. Second semester.

Chatburn

Civil Engineering 30. **Forest Survey**—Designed for students of forestry. Prerequisite: Civil Engineering 5, 5a. Field and map work. Three hours credit. Second semester.

Bridgegan

7. **Forest Utilization**—Uses of timber; methods of logging and milling; the factors influencing the choice and use of logging methods; cost of lumbering in various forest regions; seasoning, grading, markets; a determination of stumpage values and the products of timber sales; secondary forest products; minor forest products. Two hours attendance. Four hours preparation. Two hours credit. First semester.

Childs

8. **Forest Utilization**—7 continued. Second semester.

11. **Silviculture**—Objects of silviculture; forest soils, temperature, moisture, light, wind and their relation to tree growth; forest influences on soil, climate, and stream flow; a study of the forest as a society of trees;

silvical characteristics of stands; forest types; pure and mixed forests. Three hours attendance. Five hours laboratory and field work. One hour library work. Three hours credit. First semester. Childs

12. **Silviculture**—11 continued. Methods of reproducing forests; forest nurseries, planting, sowing, thinning, harvesting; forest injuries and methods of preservation. Includes 12a and 12b. Same amount and distribution of time and same credit as in course 11. Childs

12a. **National Forest Planting**—Methods of seed collecting, seed storage, nursery practice, and field planting. From six to eight lectures. Second semester. Mast

12b. **Commercial Nursery Practice**—Methods used in various parts of the United States; private forest plantations. From six to eight lectures. Second semester. Mast

14. **Forest Mensuration**—Construction of log rules and scaling. Methods of determining volume, age and increment of trees singly and of stands. Construction of volume tables, growth tables, yield tables following the gathering of data in the field. Practical application of this course is made also in Forestry 20a. Three hours attendance. Six hours laboratory, library and field work. Three hours credit. Second semester. Morrill

15. **Construction Engineering**—The construction of forest telephone lines, roads and trails, fire lines and lookout stations, cabins, barns, fences, designing bridges, trestles, culverts, flumes, trams, slides and splash dams; assigned reading preparatory to Railway Surveying (Civil Engineering 8); Two hours attendance. Four hours preparation. Assigned reading. Two hours credit.

17. **Forestry Policy**—State and Federal forest and land laws. State and national activity as to public and private holdings of timber lands; taxation timber owners' associations; state and private co-operation in fire protection. Includes 17a. One hour attendance. Two hours preparation. One hour credit. Morrill

17a. **Special State Forestry Problems**—Management of state reserves. Ten lectures by a state forester.

19. **Forest Management and Valuation**—The relation of forest management to silviculture; forest rotation based upon various points of view the normal forest; methods for accomplishing sustained yield. Valuation of forest soil and of forest growth. Forest organization and administration.

Forest working plans. Three hours attendance. Six hours preparation. Three hours credit. First semester. Morrill

20. **Forest Management and Valuation**—19 continued. Second semester. Morrill

20a. About April 1 a field trip will be made to some extensive forest region where a tract of forest will be surveyed, the stands carefully estimated, growth studies made, logging and milling problems investigated and data for a forest working plan secured. About May 1 the class will return to the University and prepare the working plan and other reports.

21. **Thesis**—Subject for thesis is to be selected upon recommendation of the head of the department. Consultation hours to be arranged. Six hours preparation. Two hours credit. First semester. Morrill, Childs

22. **Thesis**—21 continued. Second semester.

23. **Forestry Problems**—A definite problem will be assigned to each student. A written report is required upon completion of the work. Consultation hours to be arranged. Six to twelve hours laboratory. Two to four hours credit. First semester. Morrill, Childs

24. **Forestry Problems**—23 continued. Second semester.

25. **Seminar**—Review of all the forestry courses preparatory to civil service examinations; and assigned reading.

26. **Seminar**—25 continued during first half of second semester.

28. **History of Forestry**—Twenty lectures and quizzes covering briefly the development of forestry practices in Europe and America and the discussion of economic conditions which lead to the adoption of forestry. One hour attendance. Two hours preparation. One hour credit. ———

30. **Grazing**—Twenty lectures, together with assigned reading, discussing range and live stock problems, Forest Service grazing and their identification and relative values, range reseeding; live stock diseases. One hour credit. Morrill

When feasible special lectures on the subject will be given by grazing experts of the Forest Service.

31. **Advanced Silviculture**—Continuing course 12 and consisting largely of assigned reading. Childs

[American History 10. **Land Laws and Policy of the United States**—Open to agricultural, engineering, forestry, and advanced academic students. Development of the successive "Wests" of American history, and the land policy accompanying each; general land policy of the present day; laws

and policies in regard to agricultural, mineral, forest, and grazing lands. Three hours attendance. Three hours credit. Second semester. *Given in 1915-1916 and alternate years.* Persinger]

SCHOOL OF AGRICULTURE COURSES

A. Farm Forestry—Relation of forestry to agriculture. Wind-breaks, shelter-belts, and forest plantations. Methods of propagation, planting, and protection. Two hours attendance. Four hours library and field work. First semester. Morrill

B. Farm Forestry—An adaptation of course A for students in the short course of the School of Agriculture. Sixteen lectures. Morrill

GEOGRAPHY AND CONSERVATION

CONSERVATION AND SOIL SURVEYS

Professor Condra (*Head of Department*), Professor Loveland, Associate Professor Bengtson

The agricultural subjects of this department are: Courses 1, 2, 4, 5, 6, 21, 23, 24, 28. Course 1 considers the origin and description of land forms. Course 2 treats the climate, structure, topography, resources and industries of North America. It describes the various soil regions. Course 4 is especially designed to meet the needs of forestry and agricultural students. Course 5 is planned for persons who wish a detailed description of the mineral fuels, forest, and water resources and their industries. Course 6 is agricultural technology, giving the regions, processes, and products of the leading agricultural industries. Course 21 is a field study of lands. Courses 23 and 24 are on soil survey. Course 28 gives the structure, climate, surface features and industries of Nebraska.

Nebraska Conservation and Soil Survey—This survey is directed by the department of Geography and Conservation. It is a natural resource survey in studying soil, water, forest and problems in development based thereon. Students wishing to prepare for work on soil surveys should take courses 1, 21, 23, 24, and 28. Laboratory courses in soils, necessary for survey work, are offered in the department of Agronomy.

1. The Land—A lecture and laboratory course in practical physical geography. Some of the topics treated are: Materials of the land; common minerals and rocks; structures; relief features; origin and detailed description of the land forms produced by wind, ground water, rivers and glaciers;

classification and interpretation of maps. Lectures fully illustrated by lantern slides, maps, models and specimens. Two hours attendance. Two hours laboratory and two hours library preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

2. **North America**—A summary study of the relief, drainage, climate, coast lines, and political divisions of the continent. The topographic and soil regions of the United States studied as to structure, physiographic history, topography and drainage, resources and industries, and geographic control of settlement and development. Agricultural conditions carefully noted. The Great Plains Region emphasized. Course is suited to all students desiring increased knowledge of the geography of our country. Lectures illustrated. Two hours attendance. Four hours library, laboratory, and preparation. Two hours credit. Second semester.

Condra, Bengtson

4. **The Atmosphere (Meteorology)**—This course is designed to meet the practical needs of students of agriculture and forestry. The importance of temperature, humidity, and movements of the atmosphere to forest and agricultural problems is studied in detail. Students are taught the construction of weather maps and climatic charts; forecasting; and the use and care of meteorological instruments. Given at farm campus first semester for agricultural students, at city campus second semester for foresters. Two hours attendance. Four hours laboratory and preparation. Two hours credit.

Loveland

5. **Industrial Geography**—A careful study of the mineral fuels, forest, and water resources of the United States and their conservation and development. Detailed studies are made of the regions, processes and products of the following industries: Coal, coke, petroleum, iron and steel, lumber, turpentine, pulpwood, and rubber. Lectures are fully illustrated by slides, motion pictures, charts and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester.

Condra, Bengtson

6. **Agricultural Industries**—Practical studies are made of the following industries: Cotton, corn, wheat, rice, tobacco, beet and cane sugars, citrous fruits, apples, coffee and tea, cattle, sheep and wool. The processes involved in converting raw products into the finished articles of commerce are emphasized. The forms, processes, and commercial relations are illustrated by means of specimens, lantern slides, and motion pictures. This is a course in practical agricultural technology. Two hours attendance.

Four hours library, museum and preparation. Two hours credit. Second semester. Condra, Bengtson

21. **Field Work**—Open to all men students. Excursions are made to the valleys of Salt Creek, Blue River and the Platte to study the various surface features such as flood plains, benches, talus slopes, scarps, bluffs and ridges. Interpretation of topographies and origin of land forms and of different soil types emphasized. The sand dredges, gravel pits, clay pits, and quarries are examined and described. Use of the level, camera, and drawing materials are employed on surveys. Field trips on certain Saturdays. One or two hours credit. First and second semesters. Bengtson

22. **Field Work**—21 continued. First and second semesters.

23. **Soil Survey**—A field course in practical soil classification and mapping. The methods used in state and national surveys are exemplified. Designed especially for Agriculture students. Autos are used for field reconnaissance. See instructor before registering. Two hours credit. First and second semesters. Condra

24—**Soil Survey**—Course 23 continued.

28. **Agricultural Geography**—A course emphasizing the physiography and industries of Nebraska. The topographic and soil regions carefully studied, especially with respect to their agricultural relations. Structures, land erosion, ground water, and rural water supplies emphasized. Lectures given by men representing different phases of state development and survey activities. Designed for those who wish to know the home state better. Lectures illustrated. Some field trips made to places of physiographic or industrial interest. Two hours credit. Second semester. Bengtson

HORTICULTURE

Professor Emerson (*Head of Department*), Associate Professor Hood,
Assistant Professor Cooper

GENERAL INFORMATION

The Department of Horticulture occupies the first floor of the new Plant Industry Building, and is equipped with excellent laboratories for practice and experimental work. The new spray laboratory where the practice in making sprays, seed testing, and other similar exercises are conducted is equal to any and superior to many in the United States. They are well equipped with the latest and most improved apparatus, charts, and specimens to illustrate the various phases of Horticulture. In addition to the

new laboratories the nursery in the Horticulture grounds furnishes materials for class use as well as to illustrate nursery practice, and to show improved methods of plant propagation. The orchard, vineyard, and gardens of the Experiment Station afford practice in pruning and training of fruits, and present the opportunity for comparison of the various cultural methods of growing vegetables, fruits and ornamentals. The newly established arboretum furnishes excellent material for the study of ornamental plants and landscape gardening. This includes practically all of the ornamentals used for landscape gardening that are adapted to our climatic conditions.

A limited number of advanced students who desire to fit themselves for teachers and investigators will be employed at moderate compensation to assist in the laboratory of the School of Agriculture during the winter and also to help with the work in the Experiment Station during the summer. The investigations now being conducted by the department on the subject of heredity afford especially favorable opportunities to graduate students.

Botany 1 and 2 or A must precede all courses in Horticulture, and it is advisable that Entomology, Soils, Chemistry, Pathology and Physiology be taken by all students majoring in Horticulture. All college courses are open to women, but courses 3, 4 and 20 are especially recommended.

PRIMARILY FOR UNDERGRADUATES

I. GENERAL COURSES

1. **Principles of Horticulture**—This course includes a general study of the principles underlying horticulture. It will take up the discussion of the different forms of propagation, study of seed and seeding and the requirements for successful multiplication of plants. In addition a brief course in vegetable gardening will be given, taking up the discussion of the main vegetable crops so that a better quality of vegetable products may be raised for home consumption. Three hours attendance. Two hours laboratory. Four hours preparation. Three hours credit. Prerequisite Botany 1 and 2. Sophomores, Juniors or Seniors. First semester.
Hood

2. **Principles of Horticulture**—A general discussion of the various methods of propagation, planting, culture, harvesting, storing and marketing tree, bush and vine fruits, designed to meet the needs of the home orchard and fruit garden. In the laboratory practical work will be given in propagation, planting, pruning, spraying, harvesting and packing the various fruits. Three hours attendance. Two hours laboratory. Four hours

preparation. Three hours credit. Prerequisite Botany 1 and 2. Sophomores, Juniors, Seniors. Second semester. Cooper

3. **Vegetable Gardening and Ornamental Plants**—Study of the ornamental plants for home decoration and as house plants. The study of seeds and seeding, proper care and management of the home garden with a view of supplying fresh vegetables for home use. Horticulture 3 and 4 are designed to meet the needs of girls wishing a brief study of ornamentals and home decoration. While each course can be taken separately it is advised that both be taken together for best results. These courses are also designed to meet the needs of school garden work as practiced in our city schools as well as the home decoration. Two hours attendance. Two hours credit. Prerequisite Botany 1 and 2. Open to women only. Sophomores, Juniors and Seniors. First semester. Hood

4. **Ornamental Gardening**—This course takes up the study of home decoration, a consideration of the principles of landscape gardening. A study of ornamental trees and shrubs, their classification and decorative value in relation to home planting. Two hours attendance. Two hours credit. Open to women. Prerequisite Botany 1 and 2. Sophomores, Juniors and Seniors. Second semester. Hood

5. **Spray Mixtures**—This course is designed to give a thorough practical knowledge of insecticides and fungicides and their manner of application for the control of insects and fungous diseases, and the methods of repairing and correcting broken, diseased, deformed and insect infested trees. It is considered advisable to take this course in connection with Economic Entomology, Plant Pathology and Agricultural Engineering 6. Four hours laboratory. Two hours preparation. Two hours credit. Second semester. Juniors and Seniors. Cooper

7 and 8. **Seminar**—Required of students who are specializing in Horticulture. The work will include the discussion of the most recent investigation and each student will be expected to make reports on the progress of individual assigned problems. One hour attendance. One hour credit. Open to Seniors and Graduates. First and second semesters.

Emerson, Hood, Cooper

II. OLERICULTURAL COURSES

11. **Olericulture**—A detailed and systematic study of the vegetable crops. This course is designed to meet the needs of those desiring to engage

in commercial truck gardening. The first of the semester will be devoted to the general principles involved in the production of vegetable crops as scope of the industry, location, equipment and management; the remainder of the time will be devoted to the detailed study of each crop. The laboratory work will be given wholly to the study of systematic olericulture or the study of the different varieties of vegetables. This enables the student to acquaint himself with the best varieties both in quality, production and commercial importance. Judging and scoring of vegetables will also be given attention. Two hours attendance. Three hours laboratory. Four hours preparation. Three hours credit. Prerequisite: Courses 1, 2 and Botany 1 and 2. Open to Juniors and Seniors. First semester. Hood

12. **Olericulture**—Continuation of Course 11. This semester will be devoted entirely to the detailed study of each vegetable crop, not covered in course 11. Laboratory continuation of the systematic study of the varieties. Two hours attendance. Three hours laboratory. Four hours preparation. Three hours credit. Prerequisite: Course 11. Open to Juniors and Seniors. Second semester. Hood

III. POMOLOGICAL COURSES

15. **Practical Pomology. Tree Fruits**—This course is designed for students majoring in Horticulture. All phases of propagating, planting, culture, control of insects and fungous diseases, harvesting, storing and marketing tree fruits with reference to commercial orcharding are given special attention (assigned reading). The laboratory exercises consist of actual field work along the lines covered by the lectures. Three hours attendance. Four hours laboratory. Five hours preparation. Four hours credit. Prerequisite: Courses 1 and 2. Juniors and Seniors. First semester. Cooper

16. **Practical Pomology. Small Fruits**—This course is designed for students majoring in Horticulture. All phases of propagation, planting, control of insects and fungous diseases, culture, harvesting, storing and marketing bush, cane and vine fruits with reference to commercial fruit growing. In the laboratory actual field work will be taken up along the same lines covered by the lectures. Two hours attendance. Two hours laboratory. Five hours preparation (including assigned readings). Three hours credit. Prerequisite: Courses 1 and 2. Second semester. Juniors and Seniors. Cooper

17. **Systematic Pomology. Apple Judging**—Identification and description of varieties of apples. Identification of insect, fungous and storage injuries. Selecting specimens and preparing exhibits. Exercises in judging box, barrel and plate exhibits. Four hours laboratory. Two hours preparation. Two hours credit. First semester. Cooper

19. **Systematic Pomology**—This course takes up in detail the systematic classification, nomenclature and description of tree, vine and bush fruits with the history and origin and adaptibility of each. The laboratory consists of the examination and classification of the various fruits. Two hours attendance. Four hours laboratory. Three hours preparation. Three hours credit. Prerequisite: Courses 1 and 2. First semester. Cooper

IV. LANDSCAPE COURSES

20. **Landscape Gardening**—Study of the principles of landscape gardening. This is an elementary course designed as the beginning of this work with the view of acquainting the student with the underlying fundamental principles, in order that he may further specialize in this subject. Laying out of small grounds, the study of plant materials, arrangement of shrubs, buildings, etc. will be discussed. Laboratory work will consist of planning and laying out of home grounds, arrangements of walks and drives, planting of trees, shrubs, etc. Two hours attendance. Three hours laboratory. Four hours preparation. Two or three hours credit. Prerequisite Botany 1 and 2 for all students except Agriculture engineers. Juniors and Seniors. Second semester. Hood

21. **Landscape Design**—A study of the designing and laying out of estates, parks, cemeteries, etc. The planting and care of trees and shrubs, with special emphasis being laid on city decoration, city forestry and park work. Each student will be required to work out separate and individual problems. One hour attendance. Six to nine hours laboratory. Two hours preparation. Three to four hours credit. Prerequisite: Course 20. Seniors. First semester. Hood

22. **Landscape Design**—Continuation of course 21. One hour attendance. Six to nine hours laboratory. Three to four hours credit. Prerequisite: Course 21. Seniors. Second semester. Hood

FOR UNDERGRADUATES OR GRADUATES

V. GENETIC COURSES

25. Principles of Plant Breeding—An elementary study of the principles underlying plant improvement, including simple discussions of the following: How plant characters arise and disappear, sports or mutations, bud variation. How characters are* inherited, alternate versus blended inheritance. Mendelian and non-Mendelian inheritance. Appearance and inheritance of latent characters. Reversion. Correlation of characters in inheritance. Degree of development of characters, or fluctuation due to environment. Adaptation. Statistical study of fluctuations. Inheritance of fluctuations. Effect of selection in modifying the type of self and open pollinated plants. Pure lines. Mass selection versus isolation of biotypes. Pedigree breeding. Hybridization as a means of combining desirable parent characters. Inbreeding. Students will study and classify variations in wild and cultivated plants, prepare a herbarium of variations, practice hybridizing plants, and study hybrid material in the greenhouse and laboratory. Prerequisite Botany 1 and 2 or A, or Zoology 1 and 2 or 3 and 4 or A. It is suggested also that Horticulture 1 and 2 or Agronomy 1 and 2 precede this course. Two hours attendance. Two hours laboratory. One hour library. One hour preparation. Two hours credit. Juniors, seniors or graduates. First semester.

Emerson

26. Genetics—Current theories of variation and heredity; their bearing upon plant breeding. A critical study of the published results of recent investigations. Assigned readings and reports. Prerequisite course 25 or 27. Two hours attendance. Four or seven hours library. Two or three hours credit. Second semester.

Emerson

27. Elementary Genetics—The topics discussed in this course are the same in large part as those included in course 25, but they are here considered in their relation to modern views of heredity, variation, evolution and eugenics rather than in relation to the practical breeding of crops. While plants will furnish the greater part of the illustrative material used, data concerning the inheritance of certain characters in animals and in man will be presented. Prerequisites: Botany 1 and 2 or A, or Zoology 1 and 2 or 3 and 4 or A. For women, seniors or graduates. Two hours attendance. Two hours credit. First semester.

Emerson

SCHOOL OF AGRICULTURE COURSES

COURSES REQUIRED FOR MEN

A. Elements of Horticulture—A study of the general principles of Horticulture, as seeds and seeding, propagation, such as budding, grafting and also pruning and spraying. Two hours attendance. Two hours laboratory. First semester.

B. Elements of Horticulture—A continued. The selection of site of orchard and garden; the study of the methods of tillage, care of tools, planting, laying out of the orchard and garden, and a study of a few of the best varieties to grow for home use. Two hours attendance. Two hours laboratory. Second semester.

COURSES REQUIRED FOR WOMEN

C. Home and Ornamental Horticulture—The work taken up in this course, will attempt to cover the principles of vegetable gardening and ornamental planting for home use and ornamentation. The choice and culture of house plants will also be discussed. The laboratory work will be devoted to the study of seeds, practice in making of cuttings of some ornamental shrubs and house plants. Two hours attendance. Two hours laboratory. First semester.

D. Home and Ornamental Horticulture—Continuation of C. Two hours attendance. Two hours laboratory. Second semester.

ELECTIVE—SENIOR MEN

E. Commercial Horticulture—The first half of the work will include the study of the vegetable crops on a commercial basis. Cultural methods, marketing and shipping will be discussed. The laboratory work will include exercises giving practice in various operations, such as sorting, packing, judging, seed testing, etc. Two hours attendance. Two hours laboratory. First semester.

F. Commercial Horticulture—This course includes the discussion of the various phases of fruit culture such as propagation, cultivation, marketing, etc. The apple, pear, plum and cherry will be discussed. The study of the packing and shipping methods as well as the profits derived from fruit growing will be given attention. Two hours attendance. Two hours laboratory. Second semester.

HOME ECONOMICS

Professor Loomis (*Head of Department*), Assistant Professor Davis, Assistant Professor Olsen, Miss Brown, Miss Wilson, Miss Ohlsen, Miss Corbin, Miss Shonka, Miss Fedde, Miss VanKirk, Miss Kjelson

GENERAL INFORMATION

The courses in this department are planned to meet the needs of three classes of students:

- (1) Those students who are specializing in other lines of study and desire some knowledge of home economics as part of a general education.
- (2) Those students who desire a special study of home economics together with the arts and sciences necessary for the successful management of homes.
- (3) Those students who wish to teach domestic science and art or home economics.

Since the larger part of the billions of dollars spent annually in the United States for food, clothing and shelter is spent by women and since much of the comfort, health and efficiency of the family depend upon the management of the home, courses in home economics are planned to help prepare women for these responsibilities.

Courses are required in related subjects, hygiene, sociology, arts and sciences. Approximately one-fourth of the work is given in the Home Economics Department, one-fourth is in science and one-fourth in language and history. In the Junior and Senior years a part of the work is elective.

The lectures are given on the city campus or preceding laboratory periods in Home Economics Hall. This building, besides affording a dormitory for students in the School of Agriculture, contains six well equipped laboratories, a practice dining room and kitchen and a small modern laundry. The Hall offers an excellent opportunity for practice work in household administration problems.

The following courses are required for a major in Home Economics in the Agricultural College: 1, 2, ¹3, 4, 5, ²6, 7, 8, 9, 10.

¹ Courses 3, 4, Foods, Selection and Preparation, and 5, (Advanced Food Study) must be preceded or accompanied by Chemistry 1 and 2.

² Course 6, Dietetics, whether taken in a minor in other colleges or in a major in the Agricultural College must be preceded or accompanied by Chemistry 3a (Organic) and 14 (Food and Sanitary) and Physiology 1 and 2.

For a major in Home Economics in the Agricultural and Teachers Colleges: 1, 2, ¹³, 4, 5, ²⁶, 7, 8, 9, 10, 13, 14.

For minor in Domestic Art in the Arts and Sciences College: 1, 2, 3, 4, 7, 8.

For a minor in Domestic Art in the Arts and Sciences and Teachers Colleges: 1, 2, ¹³, 4, 7, 8, 13.

For a minor in Domestic Science in the Arts and Sciences College: 1, 2, ¹³, 4, 5, ²⁶.

For a minor in Domestic Science in the Arts and Sciences and Teachers Colleges: 1, 2, ¹³, 5, ²⁶, 13, 14.

1. **Sewing and Textiles**—Fundamental principles of sewing and garment-making applied to the making of household articles, undergarments and shirt-waist suit. Use and alteration of patterns. Drafting. Textiles, their origin, production and manufacture. Study and comparison of materials from the standpoint of the consumer. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester. Davis, Brown, Ohlsen, VanKirk

2. **Sewing and Textiles**—Continuation of 1. Second semester.

3. **Foods: Selection and Preparation**—Composition and function of typical foods; fundamental principles and processes of cooking and their application in the preparation of individual dishes; nutritive and money values. Should be preceded or accompanied by Chemistry 1 and 2. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester. Olsen, Wilson, Green

4. **Foods: Selection and Preparation**—3 continued. Second semester.

5. **Advanced Food Study**—Preservation of foods. A study of the manufacture and choice of foods from the economic standpoint. Development of the kitchen and its apparatus. Comparison of the cost, quality and sanitation of foods manufactured outside and inside of the home. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Loomis, Olsen, Wilson

6. **Dietetics**—Consideration of problems of digestion and metabolism. Study of dietaries of given cost and their adaptation to varying conditions of health, age and environment. Institutional dietaries. School lunch

¹ See foot-note (1) on p. 388.

² See foot-note (2) on p. 388.

rooms. Two hours attendance. Four hours laboratory. Three hours preparation. Three hours credit. Second semester.

Loomis, Olsen, Wilson

7. **Textiles and Clothing**—Designing and advanced principles of dressmaking. Millinery. Comparison of home and factory made clothing. Clothing budgets and relative percentage of income spent for clothing. Care and hygiene of clothing. Microscopic and chemical analysis of fabrics. Development of textile and clothing industries and a study of the economic and sociological phases of these industries today. Two hours attendance. Four hours laboratory. Three hours outside preparation. Three hours credit. First semester.

Davis, Van Kirk

8. **Textiles and Clothing**—Continuation of 7. Second semester.

9. **Household Administration**—House plans and furnishings; ventilation, heating, lighting, water supply, disposal of waste; management of household affairs, division of income, domestic service, and home nursing; care of the house. Two hours attendance. Two hours laboratory. Five hours outside preparation. Three hours credit. First semester.

Loomis, Wilson

10. **Household Administration**—9 continued. Second semester.

11. **Survey Course in Food Study**—For students in the College of Arts and Sciences who desire a general knowledge of foods, their composition, preparation and place in the dietary. Two lectures. Three hours laboratory. Two hours credit. First semester. Open only to students above the Freshman year. Not required in the Four-Year Home Economics Group.

Olsen

12. **Survey Course in Foods**—A continuation of 11. Includes the preparation and service of simple dietaries for adults and children in health and disease.

Olsen

13. **Teachers' Course**—Theory and method of teaching Home Economics. Required of candidates for the University Teachers' Certificate in Home Economics. Lectures with practice teaching. Two hours attendance. Four hours outside preparation, including practice teaching. Two hours credit. First semester.

Loomis, Davis

14. **Teachers' Course**—13 continued. Second semester.

Agricultural Engineering 5. **Wood Work and Interior Finish**—First semester.

Baer

Agricultural Engineering 18. **Wood Work and Interior Finish**—Second semester.

Baer

SCHOOL OF AGRICULTURE COURSES

A. Sewing and Design—Fundamental principles of hand and machine sewing applied to making of household articles and undergarments. Repairing by patching and darning. Textiles, their manufacture, quality and value. Principles of design applied to household art. Three hours attendance. Six hours laboratory. First semester.

B. Sewing and Design—A continued. Second semester.

C. Cooking—Elementary study of the selection and preparation of food based upon its composition. Two hours attendance. Four hours laboratory. First semester.

D. Cooking—Continuation of C.

E. Advanced Cooking—Preservation of food. A study of the choice of food for adults and children in health and disease. Preparation and serving of lunches and meals. Two hours attendance. Four hours laboratory. First semester. (See L.)

F. Advanced Cooking—Continuation of E. (See K.)

G. Household Art—Drafting and use of patterns. Cutting, fitting and finishing of dresses. Simple embroidery. Millinery. Textiles, including care, cost and hygiene of clothing. Three hours attendance. Six hours laboratory. First semester. (See L.)

H. Household Art—Continuation of G. (See M.)

I. House Practice—Decoration and care of the house. The study begins with the student's room and includes lecture and laboratory work and excursions. One hour attendance. Two hours laboratory. First semester. I must be taken in connection with C.

J. House Practice—Construction, lighting and heating of the home. Continuation of I and taken in connection with D.

K. House Practice—An elementary study of problems in household management. One hour attendance. Two hours laboratory. First semester. K must be taken in connection with E.

L. Normal Course in Domestic Science and Art—Seniors in the Normal Course will have two hours attendance and four hours laboratory in G and one hour attendance and two hours laboratory will be spent in L. A study of work in cooking and sewing that may be introduced into rural

schools with very little equipment. The place of industrial work in the curriculum and possible correlations.

M. Continuation of L.

MILITARY SCIENCE AND TACTICS

[See College of Arts and Sciences]

PHYSICAL EDUCATION

[See College of Arts and Sciences]

ZOOLOGY

[See College of Arts and Sciences]

**The Agricultural Experiment
Station for Nebraska**

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THE WORKING STAFF

EDWIN MEAD WILCOX, Ph. D., Agricultural Botany.
¹FREDERICK JAMES ALWAY, Ph. D., Agricultural Chemistry.
FRED WILBERT UPSON, Ph. D., Agricultural Chemistry.
LEON WILSON CHASE, B. Sc. in M. E., Agricultural Engineering.
RALPH KENNETH BLISS, B. Sc., Animal Husbandry.
JAMES HARRISON GAIN, M. D. C., Animal Pathology.
JULIUS HERMAN FRANDSEN, M. S. A., Dairy Husbandry.
LAWRENCE BRUNER, B. Sc., Entomology.
THEODORE ALEXANDER KIESSELBACH, A. M., Experimental
Agronomy.

¹ Resigned.

- HORACE CLYDE FILLEY, A. M., Farm Management.
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GEORGE ANDREW LOVELAND, A. M., Meteorology.
WILLIAM PATTON SNYDER, M. S., Superintendent Experimental Substation, North Platte.
¹ WILLIAM WESLEY BURR, B. Sc., Associate in Soils and Crops, North Platte; Assistant Agriculturist, Office Dry Land Agriculture, U. S. Department of Agriculture.
CHARLES BOPES LEE, A. M., Associate in Animal Husbandry.
MYRON HARMON SWENK, A. M., Economic Entomology.
GEORGE KONRAD KARL LINK, A. M., Assistant in Agricultural Botany.
JOHN WILLARD CALVIN, B. Sc., Assistant in Agricultural Chemistry.
PERCY BOUSFIELD BARKER, A. M., Assistant in Agronomy (Soils).
ERWIN HOPT, B. Sc., Assistant in Agronomy (Crops).
JOHN ANDERSON RATCLIFF, B. Sc., Assistant in Experimental Agronomy (Crops).
HOWARD JOHN GRAMLICH, B. Sc., Assistant in Animal Husbandry (Horses).
LAZELLE BRANTLY STURDEVANT, A. M., M. D., Assistant in Animal Pathology.
JOHN RALPH COOPER, B. Sc., Assistant in Horticulture.
EDWIN GARVER WOODWARD, A. M., Assistant in Dairy Husbandry.
CHARLES ALTON HELM, B. Sc., Assistant in Experimental Agronomy.
JAMES COWAN, M. E., Superintendent Experimental Substation, Valentine.
FRITZ KNORR, B. Sc., Superintendent Experimental Substation, Scottsbluff.
¹ SENATOR WILLIS PERIN, Farm Superintendent.
HOMER LEROY NYE, Foreman Demonstration Farm, Culbertson.

¹ Resigned.

THE CENTRAL EXPERIMENT STATION

The Nebraska Agricultural Experiment Station, carried as a department of the College of Agriculture of the University of Nebraska, is maintained from funds appropriated by Congress, supplemented by state appropriations. Under the provisions of the Hatch Bill, each state and territory that had established an agricultural college under the land grant act of 1862 was offered funds to establish, in connection therewith, an agricultural experiment station. Nebraska assented to the conditions and was one of the states to receive immediate benefits from the act.

The work contemplated by the law providing for these experiment stations is set forth as follows in section 2 of the act establishing the station:

SECTION 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under the varying series of crops; the capacity of new trees or plants for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states and territories.

On March 16, 1906, an act known as the Adams act became effective, granting increased support to the Experiment Station for purely technical investigations along the lines mentioned in the Hatch act under which the Experiment Station was established, and since the acceptance of this fund the Experiment Station has been conducting these technical lines of investigation in accordance with the act.

The central experiment station is located at the University Farm, except the Finance Office, which is located at the University campus. The farm

comprises a tract of 320 acres located three miles east of the University, having street car connections. About one hundred acres is now laid off in experiment plats for field crops, fruits, and vegetables. The animals used for experiment are in a measure furnished from the herds of cattle, sheep and hogs used for instructional purposes. The offices of the Director and of the departments of Animal Husbandry and Farm Management, and the Agricultural Library, are in Agricultural Hall. The offices of the departments of Instructional Agronomy, also of Agricultural Chemistry, and the laboratories for investigation in these lines are in Experiment Station Hall. The Departments of Horticulture, Agricultural Botany, Entomology and the offices of Experimental Agronomy are in Plant Industry Hall. Dairy Husbandry and Animal Pathology have separate buildings.

THE EXPERIMENTAL SUBSTATIONS

North Platte Substation. The Experimental Substation provided for by the Legislature of 1903 is located in Lincoln County, three miles south of North Platte, on a tract of 1,920 acres. This farm contains 270 acres of bench land with an elevation of about 2,800 feet. About 140 acres of this farm is level table-land with an elevation of 3,000 feet, the remainder of the farm being rough canyon and table-land devoted to pasture. The experiments in crop and animal production upon this farm are comparable with nearly all the crop production and animal industry of Central Nebraska. Experiments in crop production are conducted entirely without irrigation. Bulletins are published from time to time through the central experiment station.

Valentine Substation (the Sand Hills Station). The Legislature of 1909 provided for an additional substation west of the second guide meridian and north of the sixth standard parallel. This station was located by the Regents, after due consideration, at Valentine, Nebraska, upon a portion of the Military Reservation adjoining the town to the southeast, a permanent lease being secured from the War Department to section 32, the west half of section 33, and that part of the southeast quarter of section 33 lying northwest of the Niobrara river,—all in township 34 north, range 27 west, in Cherry County, Nebraska. Upon request to the citizens of Valentine, a deed was given to the Regents for the University to 40 acres of land lying immediately west of section 32, being the northeast quarter of the southeast quarter of section 31, township 24 north, range 27 west, in

Cherry County, Nebraska. A Superintendent's house, a barn, and other buildings have been erected upon the deeded land, the entire tract has been fenced, and preparations have been made and active experimental work began in the spring of 1911.

The Scottsbluff Substation. The Legislature of 1909 also provided for an appropriation to be used in co-operation with the United States Department of Agriculture to study irrigation methods and crop production in the North Platte Valley. 160 acres of land located on the southeast quarter of section 21, township 23 north, range 57 west, was selected for this purpose and was withdrawn from entry by the Reclamation Service and assigned to the use of the United States Department of Agriculture and the Nebraska Experiment Station for the purposes above named. Experimental work in crop rotation, the application of water to the land, and other questions relative to the development of agriculture in the North Platte Valley are in progress. Work in dry land agriculture is also being studied on land which does not receive irrigation water.

The Culbertson Demonstration Farm. The Legislature of 1911 made an appropriation to establish experimental work at Culbertson under such conditions as the Regents might determine. After several trips of investigation, the Regents on April 13, 1912, purchased from Mr. W. H. Ferguson the southeast quarter of section 9, township 3, range 31 west, 160 acres of land, for a demonstration farm. The farm is located about one-half mile east of the town of Culbertson, on the north side of the main traveled road. It slopes toward the road and is somewhat rolling. It is all under an irrigation ditch, so that it may be farmed under irrigation if desired. The Regents did not acquire water rights with the land.

Only a small portion of the farm came into immediate possession of the Regents, so that not much farming has been carried on. A superintendent was placed in charge. A residence has been erected, and a small tool shed and stable for temporary use.

EXPERIMENT STATION BULLETINS

Each year the Station publishes at least four bulletins. These contain the results of investigations in subjects pertaining to agriculture. Many of these bulletins cover lines of technical investigation upon scientific subjects relating to agriculture. The reports of investigation at all sub-

stations are published through the central station. The edition of each bulletin varies from 3,000 to 10,000 in technical bulletins and from 10,000 to 30,000 or more in regular bulletins. An Annual Report of 5,000 copies is published, containing a summary of the work of the year and experimental results of interest to investigators. The publications of the Station since those reported in the last General Catalog are as follows:

Twenty-sixth Annual Report. Presented to the Governor February 1, 1913. 5,000 copies.

Bulletin No. 137 (North Platte Substation Bulletin No. 13). Growing Forest Trees in Western Nebraska; Shrubs and Ornamentals. By W. P. Snyder. Distributed May 26, 1913. 20,000 copies.

Bulletin No. 138. Silo Construction in Nebraska. By L. W. Chase. Popular Edition distributed May 26, 1913. 20,000 copies. Limited Edition distributed June, 1913. 5,000 copies.

Bulletin No. 139. Dairy Herd Records for Fourteen Years. By A. L. Haecker and J. H. Frandsen. 5,000 copies.

Bulletin No. 140 (Popular Edition of Research Bulletin No. 5). (North Platte Substation No. 14). The Storage and Use of Soil Moisture. By W. W. Burr. 20,000 copies.

Research Bulletin No. 4. The Inheritance of a Recurring Somatic Variation in Variegated Ears of Maize. By R. A. Emerson. 3,000 copies.

Research Bulletin No. 5. Storing Moisture in the Soil. By W. W. Burr. (In press.) 5,000 copies.

Press Bulletin No. 40. Potato Pointers. By E. M. Wilcox and R. A. Emerson. Distributed April 21, 1913. 25,000 copies.

Press Bulletin No. 41. Evils of Premature Creameries. By J. H. Frandsen. Distributed May 19, 1913. 15,000 copies.

Press Bulletin No. 42. Some Suggestions Regarding the Care of Milk and Cream in the Home. By J. H. Frandsen. Distributed June 14, 1913. 40,000 copies.

Press Bulletin No. 43. The Distribution and Use of Hog Cholera Serum. By J. H. Gain and Fred E. Johnson. Distributed July 14, 1913. 30,000 copies.

Press Bulletin No. 44. Suggestions for Dairy Farmers. By J. H. Frandsen. Distributed September 15, 1913. 25,000 copies.

Extension Bulletin No. 22. Sweet Clover in Nebraska. By T. A. Kiesselbach. 20,000 copies.

The Experiment Station desires to assist the farmers of the state in solving many of the difficult and perplexing problems that affect our agricultural production, and to this end is carrying on investigations along lines that aid the practical farmer. The co-operation of all who are interested in the improvement of agricultural practice is invited.

The College of Law

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL.B., Registrar and University Publisher.

WILLIAM GRANGER HASTINGS, A. B., Dean of the College of Law and Professor of Law. Law Building.

HENRY H. WILSON, A. M., LL. M., Professor of Law. Law Building.

EDWIN MAXEY, Ph. M., D. C. L., Professor of Public Law and Diplomacy. Law Building.

CHARLES AUGUSTUS ROBBINS, Ph. M., LL. B., Professor of Law. Law Building.

JOHN JAMES LEDWITH, B. Sc., LL. B., Professor of Law. Law Building.

ADDISON ERWIN SHELDON, A. M., Director of the Legislative Reference Bureau. Instructor in Contemporary Legislation. University Hall, 306.

GEORGE NIMMONS FOSTER, Ph. B., LL. B., Assistant Professor of Law. Law Building.

WALTER LYNDON POPE, A. B., Assistant Professor of Law. Law Building.

SAMUEL JOHNSON TUTTLE, A. M., LL. B., Ex-Judge of the District Court, Instructor in Real Property, Lecturer on Land Titles. Security Mutual Life Building.

ADDISON SEABURY TIBBETS, B. C. E., Ex-Judge of the District Court; Lecturer on Professional Ethics. Richards Block.

CLAUDE COPLEY FLANSBURG, Lecturer on Advocacy. Funke Building.

¹ Resigned.

THE COLLEGE OF LAW

As a place for study, the modern law school has great superiority over the law office. Experience has shown that in the large majority of cases the preparation of those who study in law offices is very imperfect both as to the work accomplished and as to the methods employed. Among law schools, moreover, those which form part of a university community offer many advantages in the way of free lecture courses, opportunities for pursuing kindred studies, general library facilities, students' societies and clubs not to be had in an independent law school or in a university law department which is located apart from the university's other schools and colleges. The College of Law of the University of Nebraska is a modern law school in the center of a large and growing university community.

COURSES AND DEGREES

Three-Year Course. Three years of undergraduate work in the College of Law and one preliminary year of academic study are necessary for the degree of Bachelor of Laws.

Six-Year Combined Academic and Law Course. Fourth-year students in the College of Arts and Sciences may elect courses in the department of Jurisprudence and Public Law which count towards the degree of Bachelor of Laws, and not to exceed twelve hours a week each semester of the first-year studies in the College of Law. These subjects count towards the degree of Bachelor of Arts or of Bachelor of Science. By this arrangement, a student is enabled to complete a combined course of study in six years and receive the two degrees. The student expecting to take this combined course of six years must declare his intention before taking his first degree and must pay the regular fees of the College of Law.

ADMISSION TO THE COLLEGE OF LAW

No distinction among students is made on account of sex or place of residence.

Entrance Credits. By enactment of the Nebraska Legislature, no person may be admitted to the bar without "a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high school course accredited by the state department of public instruction." The preliminary educational requirements for admission

to the College of Law are much higher. To enter the first-year class in this college each candidate must present entrance "credits" for high school work equal to 30 "points" or a total of 150 recitation hours¹ and, in addition, one year of college work of at least 30 hours. Conditional admission is permitted on a minimum of 28 credit points or 140 recitation hours and the one preliminary year of academic study. Candidates who are not graduates of a secondary school accredited to the University or of a school whose instruction can be accepted as of equivalent rank are required to take examinations for admission. A student admitted conditionally must remove the conditions at the earliest possible opportunity; the degree will not be granted until such conditions are removed. Persons at least 21 years of age, unable to meet the entrance requirements may be admitted as special students, not candidates for the degree. Upon fulfilling the entrance requirements, such special students may register as regular students, and become candidates for the degree. Persons presenting diplomas or certificates from recognized universities and colleges in good standing or from accredited high schools, normal schools, and academies, are admitted without examination, to whatever standing their credentials entitle them. The requirements for entrance are as given below. The time element indicated with each subject is essential.

Entrance Subjects (30 points). The 30 points¹ required for admission must be presented from the following subjects in the amount indicated:

¹ A "credit point" means the work in a high school subject of five recitations a week, of not less than 40 minutes each, during a period of at least 18 weeks. In laboratory courses, it means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

In preparing for entrance to the College of Law, students are urged to give their time chiefly to Latin, History, and English, since these subjects are found to be of especial value. In no case will a candidate be admitted to the College of Law whose written composition is deficient in grammar, spelling, punctuation, and paragraphing.

Required Subjects—		Points
English.....		4
History (European) ^a		2
Language (Foreign) ^b		6
Mathematics.....		4
Science (Laboratory) ^c		2

Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school.....12

Total.....30

- ^aHistory: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- ^bLanguage: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- ^cScience: It is recommended that Physics be offered in meeting the science requirement.

Advanced Standing. A credit hour is given for a subject carried one hour a week for a semester. Thus, "Contracts" counts six credits, "Torts" four credits, etc. Applicants possessing the required preliminary education are admitted to advanced standing as follows:

To the Second-year Class—(1) Any person at least nineteen years of age who has attended for one year another law school having an approved course equivalent to the first-year course in this College and who upon examination obtains at least twenty-four credits. (2) Any person who has received the bachelor's degree from one of the general colleges of the University and has completed work in the College of Law equal to at least twenty-four credits.

To the Third-year Class—Any person at least twenty years of age, who has attended for two years an approved law school and who upon examination obtains a total of at least fifty credits. The degree of Bachelor of Laws is not conferred on persons who have not attended approved law schools three years, including at least full attendance for the last year at this College.

To Advanced Credit in General—At the discretion of the Dean of the College of Law, credit may be given without examination for work satisfactorily completed at other approved law schools offering courses equal

to those given in this school, but in no case will credit be given except upon presentation of a certificate for work in residence at an approved law school. A student who has been allowed credit in any course, and who fails on any of the examinations which he has been required to take in other courses for which he has not been allowed credit, may be required to take any or all of the work for which credits have been allowed. Students who apply for advanced standing on examination are charged an examination fee of \$10.

Adult Special Students. Persons of suitable preliminary training, not candidates for a degree, may be admitted at any time, without examination, upon payment of the required fees. They must first make application to the Registrar as in the case of regular students. Persons preparing for the state bar examinations and business men not intending to practice law as a profession are admitted as such special students. The same diligence, industry, punctuality and proficiency are required of special students as of candidates for the degree. Students are not permitted to abuse this privilege of special registration by making it a means of securing merely nominal membership in the University, whether for social or athletic purposes or for any other reason. No Adult Special student may claim an official transcript of his work accomplished.

Registration. Registration in the College of Law takes place on the first four days of each semester, from 9 a. m. Wednesday to 5 p. m. Saturday. Entrance examinations are held during the week of registration. To promote prompt registration, a special fee of \$3 is charged a student who, unless excused by the Chancellor, for any reason seeks to register later than the regular days set aside for this purpose. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student changing from one college to another must pay a new matriculation fee of \$5 and no student is permitted to change from one college to another without written permission to the Registrar from the Dean of each college concerned. Students may not attend classes for which they are not registered, and credit is not given for studies pursued without registration. Any change in a student's residence must be reported immediately to the Registrar. When a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him, upon application, permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

Student Adviser. The Dean of the College is the student's adviser. He has daily consultation hours when students may call seeking advice and encouragement in their work. Leave of absence for a brief period is granted a student by the Dean. This leave is merely a justification for the absence and is not an excuse from any work. Students not previously excused shall make request for excuse for absence within two weeks after the absence ceases.

FEES AND EXPENSES

Fees must be paid upon registration, to the Secretary. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration save for causes beyond the student's control. In the latter instances the refund can be made only upon written application to the Registrar, stating reasons, and presented at the time of honorable withdrawal from a class or from the University. No extra fees are charged to students from other states. No student may enroll in classes or take any private examination until his fees are paid. The schedule of fees in the College of Law is as follows:

Matriculation fee (payable only on first registration).....	\$5
Library fee, each semester.....	1
Incidental (6-year combined course), each semester.....	3
Diploma fee.....	5
Diploma fee, in absentia, additional.....	10

Tuition fees:

Annual tuition, payable \$25 for the first semester and \$20 for the second semester.....	45
For one semester only.....	25
Special students, not more than two subjects, each semester.....	12

Examination fees:

For advanced standing.....	10
For all who require special examination.....	2

Expenses. The cost of table board to students in Lincoln ranges from \$3 to \$5 a week. The cost of lodging ranges from \$2.50 to \$10 a month, the usual cost being from \$4 to \$5 where two students occupy the same room. The usual cost of combined board and lodging is from \$18 to \$20. A student in a city the size of Lincoln has many opportunities to secure employment by which he may defray at least part of his expenses. The authorities of the College do not, however, undertake to find employment for students. Under the direction of the Registrar, the Young Men's

Christian Association of the University maintains an employment bureau, whose services are free to students.

REQUIREMENTS FOR GRADUATION

Regular students who have completed the course of instruction to the satisfaction of the faculty of the College of Law and the Board of Regents of the University receive the degree of Bachelor of Laws. Students whose time and means do not permit them to complete the course receive certificates of proficiency according to the merit and extent of their work.

Grades. From September 1, 1913, no student will be recommended for graduation whose general average is below 70 per cent.

No student is recommended for graduation who is not within 18 hours of the requirement at the beginning of his last semester.

ADMISSION TO THE BAR

Under the statutes of Nebraska, admission to the bar is to be had in the Supreme Court only, and is governed by rules established by that court. The statutes now provide as follows: "No person shall be admitted to the bar unless such person is at least twenty-one years of age and of good moral character, and unless such person either (1) has had a preliminary education, other than legal, equivalent to that involved in the completion of the first three years of a high-school course accredited by the State Department of Public Instruction, and has regularly and attentively studied law in a reputable law school or in the office of a practicing attorney, or partly in such school and partly in such office; for a period of at least three years, at least one year of which office study shall have been passed in a law office in this state, and shall pass a satisfactory examination upon the principles of the common law, equity, criminal law, statutes and practice of this state; or (2) is a regular graduate of the College of Law of the University of Nebraska, or of such other college of law of this state having entrance requirements and a course of study equal to and equivalent to those of the College of Law of the University of Nebraska as the Supreme Court shall, upon application and showing, designate as a College of Law whose graduates shall be entitled to admission without examination; Provided, that such other College of Law shall be a member of the Association of American Law Schools. Provision shall be made by rule of court for the registration of students in law offices in this state at the beginning of their respective terms of study in the office of the clerk of the Supreme

Court or the office of the clerk of the District Court in the county in which any such law office is located." The College of Law of this University is a member of the Association of American Law Schools and graduates of the College of Law are admitted to practice in Nebraska on motion without examination other than that sustained prior to graduation.

COURSES OF INSTRUCTION

The course of instruction in the College of Law extends through three years of thirty-six weeks each exclusive of vacations. The design of the course is two-fold: (1) To afford the training in the fundamental principles of the common law essential to the practice of the profession in any jurisdiction where that system obtains. (2) To acquaint the student with the special subjects of immediate or local importance in Nebraska and neighboring states and to instruct him thoroughly in the peculiarities of substantive law and procedure in those jurisdictions, so as to enable him to enter upon the practice understandingly at once, without any further term of practical instruction in an office. In addition, bearing in mind the extent to which the legislative and executive departments are recruited from the bar, and the part which the profession must take in legislation of all kinds, as well as in the progress and reform of the law, it is designed to stimulate an intelligent and enduring interest in the history and science of law, in order to make not merely practitioners, but lawyers in the fullest sense. With the additional requirement of one year of college work by way of preparation it is hoped that the student may be saved from what seems the most besetting error in regard to law and society, a wholly mechanical conception of them and of possible changes in them. The following program of study is made with these ends in view:

REQUIRED COURSES

FIRST YEAR—FIRST SEMESTER

Common Law Pleading—Whittier's Cases on Pleading. Two hours attendance. Two hours credit. Foster

Contracts—Williston's Cases on Contracts. Three hours attendance. Three hours credit. Robbins

Criminal Law and Procedure—Mikell's Cases on Criminal Law; the Nebraska Criminal Code. Three hours attendance. Three hours credit. Maxey

History and System of the Common Law—A general survey of the legal system of English-speaking countries; courts, their organization and

jurisdiction. Selected cases; Blackstone's Commentaries, Book III; Street's Foundations of Legal Liability, vol. 3. Two hours attendance. Two hours credit. Hastings

Property I—Gray's Cases on Property, vol. 1; Kirchwey's Readings on the Law of Real Property. Two hours attendance. Two hours credit. Foster

Torts—Ames & Smith's Cases on Torts, vol. 2. Two hours attendance. Two hours credit. Wilson

FIRST YEAR—SECOND SEMESTER

Agency—Huffcut's Cases on Agency. Two hours attendance. Two hours credit. Robbins

Common Law Pleading (Concluded)—One hour attendance. One hour credit. Foster

Contracts (Concluded)—Three hours attendance. Three hours credit. Robbins

Domestic Relations—Woodruff's Cases on Domestic Relations. One hour attendance. One hour credit. Foster

Equity Jurisdiction I—Keener's Cases on Equity Jurisdiction, vol. 1. Two hours attendance. Two hours credit. Hastings

Practice in Justices' Courts—Selected cases; Cobbey's Student's Code of Nebraska. One hour attendance. One hour credit. Ledwith

Property I (Concluded)—Gray's Cases on Property, vol. 2. Two hours attendance. Two hours credit. Foster

Torts (Concluded)—Ames & Smith's Cases on Torts, vol. 1. Two hours attendance. Two hours credit. Wilson

SECOND YEAR—FIRST SEMESTER

Code Pleading—Hinton's Cases on Code Pleading. Three hours attendance. Three hours credit. Ledwith

Equity Jurisdiction II—Keener's Cases on Equity Jurisdiction, vols. 2 and 3. Three hours attendance. Three hours credit. Hastings

Equity Pleading—Thompson's Cases on Equity Pleading. One hour attendance. One hour credit. Foster

Evidence—Thayer's Cases on Evidence. Two hours attendance. Two hours credit. Wilson

Property II—Gray's Cases on Property, vol. 3. Two hours attendance. Two hours credit. Pope

Quasi-Contracts—Woodruff's Cases on Quasi-Contracts. Two hours attendance. Two hours credit. Robbins

SECOND YEAR—SECOND SEMESTER

Bills and Notes—Smith & Moore's Cases on Bills and Notes. Three hours attendance. Three hours credit. Robbins

Code Practice—Bringing an action; provisional remedies; Nisi prius; judgment, execution, appellate procedure. Sunderland's Cases on Practice; Revised Statutes of Nebraska. Wheeler's Compiled Statutes, Codes. Three hours attendance. Three hours credit. Hastings

Damages—Beale's Cases on Damages. One hour attendance. One hour credit. Pope

Evidence (Concluded)—Two hours attendance. Two hours credit. Wilson

Wills and Administration—Two hours attendance. Two hours credit

Trusts—Ames' Cases on Trusts. Three hours attendance. Three hours credit.

THIRD YEAR—FIRST SEMESTER

Constitutional Law—Hall's Cases on Constitutional Law. Two hours attendance. Two hours credit. Hastings

Federal Procedure—Selected cases. One hour attendance. One hour credit. Wilson

Insurance—Selected cases. One hour attendance. One hour credit. Robbins

Mortgages—Kirchwey's Cases on Mortgages. Two hours attendance. Two hours credit. Ledwith

Partnership—Burdick's Cases on Partnership. Two hours attendance. Two hours credit. Pope

Private Corporations—Smith's Cases on Private Corporations. Two hours attendance. Two hours credit. Maxey

Property III—Gray's Cases on Property, vol. 5. Three hours attendance. Three hours credit. Tuttle

THIRD YEAR—SECOND SEMESTER

Constitutional Law (Concluded)—Hall's Cases on Constitutional Law. Three hours attendance. Three hours credit. Hastings

Municipal Corporations—Smith's Cases on Municipal Corporations. One hour attendance. One hour credit. Pope

Public Service Companies—Beale and Wyman's Cases on Public Service Companies. Two hours attendance. Two hours credit. Maxey

Private Corporations (Concluded)—Two hours attendance. Two hours credit. Maxey

Property III (Concluded)—Gray's Cases on Property, vol. 6. Two hours attendance. Two hours credit. Tuttle

Sales—Burdick's Cases on Sales. Two hours attendance. Two hours credit. Robbins

Suretyship and Guaranty—Wilson's Cases on Suretyship and Guaranty. One hour attendance. One hour credit. Wilson

ELECTIVES

At least eight hours of work in the elective courses must be presented for the degree.

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS AND, UPON CONSENT OF THE DEAN, TO FIRST-YEAR STUDENTS

Administrative Law I (PUBLIC LAW 3)—Public officers; extraordinary legal remedies. Goodnow's Cases on the Law of Officers. First semester. Two hours attendance. Two hours credit. Maxey

Administrative Law II (PUBLIC LAW 4)—Taxation. Goodnow's Cases on Taxation. Second semester. Two hours attendance. Two hours credit. Maxey

Analytical and Historical Jurisprudence (JURISPRUDENCE 3)—Second semester. Three hours attendance. Three hours credit. Maxey

International Law I (PUBLIC LAW 6)—Maxey's International Law. First semester. Three hours attendance. Three hours credit. Maxey

International Law II (PUBLIC LAW 7)—Advanced Course. Second semester. Two hours attendance. Two hours credit to students who do not present International Law I. Maxey

Admiralty Law—Ames' Cases. Two hours attendance. Two hours credit. Second semester. Maxey

Roman Law (JURISPRUDENCE 2)—History and Institutes. First semester. Two hours attendance. Two hours credit. (*Given in 1912-1913 and alternate years.*)

Practical Legislation (POLITICAL SCIENCE 33 and 34)—Drafting and criticism of legislative bills and information briefs with Legislative Reference Bureau. Practice work at State House January to April of odd-numbered years. Open to second and third-year, and, on the approval of the Dean, to first-year law students. Sheldon

OPEN TO SECOND-YEAR AND THIRD-YEAR STUDENTS ONLY

Bankruptcy—Williston's Cases on Bankruptcy. First semester. Two hours attendance. Two hours credit. Robbins

Conflict of Laws—Beale's Cases on the Conflict of Laws. Minor's Conflict of Laws. Second semester. Two hours attendance. Two hours credit. (*Given in 1913-14 and alternate years.*) Hastings

Irrigation Law—Selected cases. First semester. One hour attendance. One hour credit. (*Given in 1913-14 and alternate years.*) Pope

Mining Law—Selected cases; Costigan's American Mining Law. First semester. One hour credit. Pope

(This course will be given in 1912-1913 and alternate years. For the benefit of the students in this course, Professor Condra, of the department of Geography and Conservation, will give two illustrated lectures on the origin of ores and ore deposits, mining, prospecting and mining operations. Arrangements for other special lectures not completed.)

OPEN TO THIRD-YEAR STUDENTS ONLY

Conveyancing—Practical exercises in conveyancing, examining abstracts of title, and drafting papers, under the personal supervision of the instructor. Pound's Exercises in Conveyancing. Second semester. Two hours attendance. Two hours credit. Ledwith

EXTRA COURSES (NO CREDIT)

Bar Examination Review—A general review of the more important topics of the law, based upon questions used at bar examinations. Open to third-year students only. Second semester. Hours to be arranged. Robbins, Hastings, Maxey

1. **Business Law**—A course in business law open to Law students. Credit applies toward graduation in the Engineering and Arts and Sciences colleges but does not apply in the college of Law. First semester: Contracts, including mistake, duress and capacity of parties; agency; insurance; sales and mortgages of personal property; bailments. Robbins

2. **Business Law**—Course 1 continued. Second semester: Negotiable instruments; suretyship and guaranty; partnership; private corporations; bankruptcy. Robbins

PRACTICE AND PRACTICE COURTS

In addition to the courses in practice, in which instruction is given in the principles and general rules of procedure in state and federal courts, practice courts are maintained in order to afford the student an opportunity of acquainting himself with the various steps in an orderly litigation, and of learning by actual experience to determine what proceedings to bring, how to bring them, and how to conduct causes to a final determination. The work in these courts is required. Every effort is made to reproduce the conditions of actual practice. First year students serve as parties, witnesses and jurors. Second year students serve as justices of the peace, constables, sheriffs, clerks of the courts of record and practicing attorneys. Third year students serve as county attorneys and in some cases as judges of the various courts of record and practicing attorneys. Three members of the faculty serve as judges at the sessions of the county and district moot courts which are held each Friday afternoon. The Supreme Court is made up of instructors and third year students.

The parties and witnesses are advised of the facts of the controversy by the instructor and the student who acts as counsel discovers the matter at issue and the testimony he may adduce in support of his contentions by consultation with the party for whom he appears and his witnesses. He then determines the form of action or proceeding, sues out and returns process, prepares pleadings and takes all steps required to bring the cause to trial. The trial is attended by an instructor, who gives personal instruction in trial procedure, preparation of instructions, verdicts, and journal entries, making motions for new trial or in arrest of judgment, settlement of bills of exceptions, supersedeas, and procedure on appeal.

Each student is required during the second year to try at least one case in an inferior court, and to take it by appeal to the district court. In the third year each student is required to take part in at least two causes, one at law and one in equity, in the district court, and on appeal in the supreme

court. A county court is also provided to furnish practice in the probating of wills and the administration of estates.

Further practical exercises in drawing the proper papers or instruments to meet the facts of hypothetical cases are provided in the courses in pleading, in practice, and in conveyancing. The student is never allowed to lose sight of the fact that he is being fitted to practice his chosen profession.

COLLEGE OF LAW LECTURE COURSE

Lectures by prominent members of the bench and bar have been provided. The lectures are upon practical topics from the standpoint of the practitioner, and, among other subjects, will deal with patent, copyright and trademark law, the preparation of causes for trial, the presentation of causes to court or jury, the examination of witnesses and other branches of advocacy, land titles, professional ethics, commercial business, collections and adjustments, the organization and management of business corporations, office economy and the selection of a library.

METHOD OF INSTRUCTION

The College of Law follows in the main the "Case" or "Source" method of teaching law. Instead of studying text-books upon which to recite, the students summarize, and prepare to expound and to comment upon in class, the important cases to which the text writers themselves must go for the law. This resort to the sources is made under the guidance of experienced instructors who supplement the class discussion of the cases with such information as the students require to enable them to understand the cases and the topics to which the cases relate. Students are often advised, and sometimes required, to read particular text-books, to supplement the work in the cases, and whenever there is occasion to do so the instructors lecture on particular legal problems. The great aim of the class work is to increase the student's accuracy of legal perception, his ability to analyze cases and extract the right principles from them, and his power to apply those principles to such more or less complicated facts as normally arise in legal practice; and especially to get an accurate acquaintance with legal relations as underlying legal rules.

LIBRARIES

Students in the College of Law have access to various libraries, aggregating 297,500 volumes.

The College of Law library, which contains over 7,500 volumes of stand-

ard reference and text-books on the common law and of American and English law reports, is a branch of the University Library.

The University Library of 111,000 volumes includes the standard authorities and works of reference on international law, Roman law, jurisprudence and public law.

The State Library of 85,000 volumes at the Capitol is one of the best law libraries in the West, containing the law reports and statutes of all English-speaking jurisdictions.

The Lincoln City Library contains 34,000 volumes.

The Nebraska State Historical Society Library contains 60,000 volumes.

PRIZES AND HONORS

Excellence in First-Year Studies. (1) For the three members of the first-year class who obtain the highest rank in the studies of the first semester, Dr. Roscoe Pound, formerly Dean of the College of Law, offers prizes—books to be selected by the donor. (2) For the member of the first-year class whose scholarship in the second semester displays the most marked improvement over that in the first semester, and who attains a grade of "E" in all his second-semester studies, Dr. Roscoe Pound also offers a prize—a book or books to be selected by the donor. In 1912-13 the first prize was awarded to David Witmeyer Swarr; second prize to William Niklaus.

Callaghan & Company Prize. Callaghan & Company, Law Publishers, Chicago, offer a prize, consisting of a set of Andrews' American Law and Procedure in two volumes, to the most proficient student in the course on "History and System of the Common Law." In 1912-13 awarded to David Witmeyer Swarr.

Legal Bibliography Prize. To promote a practical knowledge of legal bibliography, the Dean of the College offers a prize, open to all students—any standard legal treatise, to be selected by the winner. This prize is awarded upon an examination held in the law library at the beginning of the second semester. The examination is both oral and written, embracing the principal reports, American and English, standard abbreviations and modes of citation, standard text-books, search for cases in the reports, identification of cases imperfectly cited, and use of digests. No award in 1913.

Oratory. The College of Law offers a first prize of \$35 and a second prize of \$15 for the best orations to be written and delivered by the regular students of the College of Law and the College of Medicine and by regular

undergraduate students who have attained junior standing in the College of Arts and Sciences. The rules and regulations governing the oratorical contest are framed by the faculty of the College of Law. It is expected that the contest will occur sometime in April. In 1912-1913 the first prize was awarded to Guy Cabbell Kiddoo; second prize to George Lee Basye.

The American Law Book Company Prize. The American Law Book Company offer as a prize for the best brief upon some legal question or case to be given out by the Law College faculty, a copy of their Student's Edition of Cyc. The competition is open to members of the second and third-year classes in the Law College. No award in 1913.

William Jennings Bryan Prize. For the best essay on the science of government is offered annually the income of \$250, the gift of Hon. William Jennings Bryan. No award in 1913.

The Order of the Coif. The Order of the Coif, the law scholarship fraternity, the Nebraska chapter of which was established in 1904, elects not less than one-tenth nor more than one-sixth of the graduating class, solely on the basis of scholarship as shown by grades attained in the required law work for the entire course.

ADVANTAGES AND PRIVILEGES

Courts. The College of Law has commodious quarters in the recently completed Law Building, within a few blocks of the law offices and courts. The Supreme Court, the District Court (in three divisions), the County Court and various minor courts are almost constantly in session during the school year. In addition to the various State Courts, the Circuit and District Courts of the United States for the District of Nebraska hold two terms in Lincoln each year. Exceptional facilities are thus afforded the student to hear the arguments of able counsel and to become acquainted with the workings of courts.

Legislature. The student has the opportunity each alternate year of attending the session of the Nebraska Legislature, where he may observe the process and forms of legislation. The course in legislation, given as a College of Law elective, brings students who take it in close touch with the work of the legislature.

General College Privileges. A student in the College of Law may without paying additional fees, register for not more than five hours of work in the College of Arts and Sciences. Credit in the general colleges is not applied toward the degrees of those colleges, however, unless the

matriculation and other fees of those colleges are regularly paid. Students taking advantage of this rule may not change their registration in the general college or drop any of the subjects registered for therein without paying the re-registration fee of \$3. Subjects peculiarly suitable to law students are American history, argumentation, comparative government, constitutional history, debate, diplomacy, English institutional history, ethics, political economy, political history, political science, public speaking, and sociology.

Gymnasium. The gymnasium is open to students of the College of Law. It is in charge of experts in physical training, who advise each student as to the character and amount of physical exercise adopted to his case.

The College of Medicine

OFFICERS OF INSTRUCTION AND ADMINISTRATION
IN OMAHA

SAMUEL AVERY, Ph.D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University
Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

WILLSON ORTON BRIDGES, M. D., Dean of the College of Medicine
and Professor of the Principles and Practice of Medicine and Clinical
Medicine.

IRVING SAMUEL CUTTER, B. Sc., M. D., Professor of Medical Chem-
istry and Director of Laboratories.

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology and
Pharmacology.

WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and
Embryology.

CHARLES WILLIAM MCCORKLE POYNTER, B. Sc., M. D., Professor
of Anatomy.

OSCAR THEODORE SCHULTZ, A. B., M. D., Professor of Pathology
and Bacteriology.

HAROLD GIFFORD, B. Sc., M. D., Professor of Ophthalmology and
Otology.

RICHARD CHANNING MOORE, M. D., Professor Emeritus of Diseases
of the Mind.

WILLIAM FORSYTH MILROY, M. D., Professor of Clinical Medicine
and Physical Diagnosis.

AUGUST FREDERICK JONAS, M. D., Professor of the Practice of
Surgery and Clinical Surgery.

HARRY MONROE McCLANAHAN, A. M., M. D., Professor of Pediat-
rics.

BYRON BENNETT DAVIS, A. B., M. D., Professor of the Principles of
Surgery and Clinical Surgery.

¹ Resigned.

- FRANK STYLES OWEN, M. D., Professor of Laryngology and Rhinology.
- ANDREW BARTHOLOMEW SOMERS, M. D., Professor of Obstetrics.
- SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.
- JOSEPH MELANCHTHON AIKIN, M. D., Professor of Nervous and Mental Diseases.
- PALMER FINDLEY, A. M., M. D., Professor of Gynecology.
- ALFRED SCHALEK, A. M., M. D., Professor of Dermatology and Genito-Urinary Diseases.
- LEROY CRUMMER, B. Sc., M. D., Professor of Clinical Medicine.
- JOHN PRENTISS LORD, M. D., Professor of Orthopedics.
- JOHN EDWARDS SUMMERS, M. D., Professor of Clinical Surgery.
- ARTHUR CHARLES STOKES, B. Sc., M. D., Associate Professor of Genito-Urinary and Experimental Surgery.
- JAMES DOUGLAS PILCHER, Ph. B., M. D., Associate Professor of Pharmacology.
- CHARLES WHITNEY POLLARD, A. B., M. D., Assistant Professor of Obstetrics.
- JAMES SAMUEL GOETZ, M. D., Assistant Professor of Therapeutics.
- BURTON WHITFORD CHRISTIE, B. Sc., M. D., Assistant Professor of Pediatrics.
- RODNEY WALDO BLISS, B. Sc., M. D., Assistant Professor of Clinical Medicine and Physical Diagnosis.
- ROBERT RUSSELL HOLLISTER, A. B., M. D., Assistant Professor of Surgery and Gynecology.
- CHARLES REX KENNEDY, M. D., Assistant Professor of Surgery.
- JOHN MONROE BANISTER, A. B., M. D., Assistant Professor of Tropical Medicine.
- CHARLES CAMPBELL MORISON, A. B., M. D., Assistant Professor of Surgery.
- ALDIS ADELBERT JOHNSON, Ph. B., M. D., Instructor in Clinical Pathology.
- CLAUDE WILLIAM MITCHELL, Ph. G., Ph. D., Instructor in Physiology and Pharmacology.
- ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.

HENRY BASSETT LEMERE, M. D., Instructor in Ophthalmology and Otology.

ERNEST TIBBETS MANNING, M. D., Instructor in Medicine.

WILLIAM PENALUNA WHERRY, M. D., Instructor in Laryngology and Rhinology.

CHARLES AARON HULL, M. D., Instructor in Surgery.

JAMES McDOWELL PATTON, A. M., M. D., Instructor in Ophthalmology and Otology.

CHARLES LIEBER, M. D., Assistant in Experimental Surgery.

WILLIAM NANCE ANDERSON, B. Sc., M. D., Instructor in Physical Diagnosis.

ALFRED JEFFERSON, M. D., Instructor in Therapeutics.

NORA MAY FAIRCHILD, M. D., Clinical Assistant in Gynecology.

JOHN CLYDE MOORE, Jr., B. Sc., M. D., Clinical Assistant in Medicine.

HOWARD BROWNLEE HAMILTON, M. D., Instructor in Medicine.

CLARENCE RUBENDALL, B. Sc., M. D. Clinical Assistant in Laryngology and Rhinology.

JOHN BEEKMAN POTTS, M. D., Instructor in Ophthalmology and Otology.

WILLIS HARVEY TAYLOR, B. Sc., M. D., Instructor in Obstetrics.

EDSON LOWELL BRIDGES, M. D., Instructor in Medicine.

AUGUSTUS DAVIS CLOYD, M. D., Lecturer on Life Insurance Examinations.

ALFRED ONIAS HUNT, D. D. S., Lecturer on Dental Surgery.

GEORGE MOGRIDGE, M. D., Lecturer on Arrested Development, Glenwood, Iowa.

JOHN FAY HYDE, M. D., Clinical Assistant in Surgery.

HARRISON ALONZO WIGTON, B. Sc., M. D., Assistant in Pediatrics.

JOHN RUDOLPH NILSSON, M. D., Assistant in Surgery.

ARCHIBALD ROY KNODE, M. D., Assistant in Ophthalmology and Otology.

FREDERICK ARTHUR VAN BUREN, M. D., Lecturer in Anatomy.

ADOLPH BERNARD LINDQUEST, A. B., M. D., Assistant in Ophthalmology and Otology.

LYNN THOMPSON HALL, B. Sc., M. D., Assistant in Medicine.

CARL HARDIN BALLARD, M. D. Instructor in Dermatology.

ROY ANDREW DODGE, M. D., Clinical Assistant in Genito-Urinary Surgery.

ALBERT ADOLPH FRICKE, A. B., M. D., Instructor in Materia Medica.

LILLIAN B. STUFF, Head Nurse in Charge of Free Dispensary.

JOHN JAY KEEGAN, A. M., Fellow in Anatomy.

PAUL CHRISTOPHER GEISSLER, A. B., Scholar in Anatomy.

ANDREW SINAMARK, B. Sc., Scholar in Chemistry.

RAYMOND GESSELL SHERWOOD, B. Sc., Assistant in Histology and Embryology.

CARL AUGUSTUS MEYER, A. B., Scholar in Physiology.

MARGARET FLAVILLA QUINLAN, Stenographer and Clerk.

¹ HALLIE DORSEY BERRY, Librarian.

HARRIET WILSON, A. B., Librarian.

Committees of the Faculty

Summer Session—Dr. Willard (Chairman), Dr. McClanahan, Dr. A. B. Somers.

Publications and Library—Dr. Guenther (Chairman), Dr. Crummer, Dr. Schalek, Dr. Jonas, Dean Bridges.

Advanced Standing and Delinquency—Dr. Poynter, (Chairman) Dr. Cutter, Dr. Willard.

Convocations—Dr. Stokes (Chairman), Dr. Bliss.

Student Activities—Dr. Pollard (Chairman), Dr. Johnson, Dr. Davis.

Dispensary—Dr. E. L. Bridges (Chairman), Dr. Kennedy, Dr. Wherry.

Clinical Teaching—Dr. Cutter (Chairman), Dr. Findley, Dr. Hollister.

Scholarships and Research Prizes—Dr. Gifford (Chairman), Dr. J. E. Summers, Dr. Milroy.

Course of Study, Catalog and Schedule—Dr. Schultz (Chairman), Dr. Guenther, Dr. Patton.

Graduate Work—Dean Bridges (Chairman), Dr. Poynter, Dr. Schultz.

¹ Resigned.

OFFICERS OF INSTRUCTION
IN LINCOLN

ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the College of Medicine and Professor of Zoology. (*Head of Department of Zoology.*)

CHARLES EDWIN BESSEY, Ph. D., LL. D., Professor of Botany and Head Dean of the Colleges. (*Head of Department of Botany.*)

CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics. (*Head of Department of Physics.*)

FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.

BENTON DALES, Ph. D., Professor of Chemistry. (*Head of Department of Chemistry.*)

RUFUS ASHLEY LYMAN, A. M., M. D., Professor of Physiology and Pharmacology and Director of the School of Pharmacy. (*Head of Department of Physiology and Pharmacology.*)

HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology and Pathology. (*Head of Department of Bacteriology and Pathology.*)

JAMES FRANKLIN STEVENS, A. M., M. D., Professor of Introductory Medicine.

GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.

MARY LOUISE FOSSLER, A. M., Assistant Professor of Chemistry.

CLARENCE JACKSON FRANKFORTER, A. M., Assistant Professor of Chemistry.

HIRAM WINNETT ORR, M. D., Assistant Professor of History of Medicine.

ELSIE DAY, A. B., Ph. G., Assistant Professor of Pharmacognosy.

DAVID CLARK HILTON, A. M., M. D., Instructor in Anatomy.

MILTON FREDERICK ARNHOLT, A. B., B. Sc., Assistant in Anatomy.

THE COLLEGE OF MEDICINE

By an agreement entered into in May, 1902, the Omaha Medical College became the College of Medicine of the University of Nebraska. The College thus incorporated into the University was founded in 1880 and had experienced strong and steady growth. As an integral part of the University, and gathering strength from that connection, the College has gone rapidly forward. The requirements for entrance have been raised step by step, keeping pace with those of the better class of medical colleges, and now are on a plane generally recognized as the highest practical for colleges, the primary aim of which is the training of practicing physicians.

The work of the first two years up to 1913 has been carried on at Lincoln. There the laboratories of the University, directed by well trained and experienced teachers, who devoted their entire time to instruction, and with equipment adequate for thorough instruction in the laboratory subjects of the medical course, furnished a preparation which was a substantial basis for the clinical work. The work of the last two years was done in Omaha, where are afforded clinical facilities more than ample for all purposes of undergraduate medical instruction.

The State Legislature of 1909 appropriated funds with which to purchase a site for the medical campus in Omaha and the Legislature of 1911 voted another appropriation of \$100,000, for a laboratory building on this campus. This building, now occupied, is the first of a group of buildings planned to provide ultimately a complete medical college plant.

During the summer vacation period of 1913 the entire equipment and staffs of the medical laboratory departments moved to Omaha. These departments, with the addition of some able instructors from other institutions make up the present laboratory faculty. A large amount of new equipment was purchased and no expense spared to equip all the laboratories with the best modern apparatus. The plant is a well organized physical unit. With the occupation of the new laboratory building and the new free dispensary, have come many changes and improvements in the course looking toward more effective medical teaching.

STANDING

The College of Medicine meets the requirements of the most exacting state examining and licensing boards and its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. The Royal Colleges of Physicians and Surgeons in England has added the University of Nebraska to the short list of American institutions whose

Graduates in Medicine may, on production of the required certificate of study, be admitted to the final examination before the Examining Board in Medicine, Surgery and Midwifery, which places them on the same basis as graduates of the best English colleges. This recognition is of especial interest to those students who are planning to take up work in foreign lands as medical missionaries.

METHODS OF INSTRUCTION

The course of study in medicine covers four years, there being in each of the years thirty-four weeks of class work exclusive of all registration and examination days. During the first two years those laboratory sciences are pursued which form the basis for the clinical studies of the last two. The objective method is followed, not only in the laboratories, but also in the clinical instruction, where constant reference is made to the facts acquired from laboratory work in the fundamental branches. Emphasis is in all cases placed on individual effort on the part of the student, of whom is required work as independent as is consistent with the further demand that he thoroughly cover the field.

The course embraces also didactic and clinical lectures, in which effort is made by charts, models, experiments, demonstrations and other appropriate means to broaden the mind of the student and to coordinate the facts acquired in laboratory and clinic. Frequent quizzes and examinations test the student's progress in each line of work.

The College affords unique opportunities for the most thorough instruction. The moderate size of the classes insures close contact between student and instructor, which is of the utmost importance in securing an exact knowledge of the fundamental branches. The sectional method of clinical work also brings the individual student in intimate contact with his clinical instructors, affords him an opportunity to study each case thoroughly and at short range, and allows him to secure a very unusual amount of bedside instruction.

The student is urged to add to his preparation a fifth year taken as an interne in some hospital, or spent in some laboratory, and provision is made whereby the student may secure on the completion of this year a second degree—Doctor of Medicine *cum laude*. This fifth clinical year is optional.

Six-year Combined Course. In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by two years of college work, there is offered a combined collegiate and medical

course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This can only be accomplished by following closely the course as outlined on page 473 of this catalog. A student registered for the degree of Bachelor of Arts may arrange a similar course by the same use of his electives, but he will probably find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

ADMISSION TO THE COLLEGE OF MEDICINE

Entrance Requirements. For admission to the College of Medicine a candidate must present credentials showing that he has completed (1) a standard four-year high-school course entitling him to 30 entrance credits or "credit points"¹ equivalent to those laid down as the minimum requirement of the Association of American Medical Colleges, and (2) two years of college work in this University or some other reputable college or university, including at least a year each of chemistry, physics, zoology, and German. This means that the graduate in medicine must have had at least six years of work above the four-year high-school course. The difference between the six-year combined course and the four-year course preceded by the required two college years lies in the fact that all of the work of the two preparatory years of the latter not being prescribed, there is latitude of election which will be of advantage to A. B. students and those who come from other colleges and universities and who do not seek a B. Sc. degree here. Two points of some importance should be noted in connection with this extended course. The initial years, if taken at the University of Nebraska, are not subject to the fees of the professional course, but demand only the moderate laboratory fees required of the general scientific student. Secondly, the work may be taken at any college of standard entrance requirements. There are many colleges which cover the introductory work noted in an eminently satisfactory manner, and in such cases the student with proper credentials may enter directly into the first year of professional work in medicine, i. e., of the four-year course.

¹An entrance credit or "credit point" is given for the work of a class holding five recitations a week, of from 40 to 50 minutes each, for at least 18 weeks. In laboratory courses a credit or "credit point" is given for three recitations and two double periods of laboratory work (under the supervision of an instructor) each week for at least 18 weeks.

For admission to the six-year combined course, the candidate must meet the entrance requirements demanded by the College of Arts and Sciences, which are 30 credit points. Conditional admission to the College of Arts and Sciences is permitted on a minimum of 28 entrance credits or "credit points" to graduates of accredited secondary schools; but all such conditions must be removed before the student may be admitted to the College of Medicine. Women are admitted to the College of Medicine on the same terms as men.

Entrance Subjects (30 points). The 30 points required for admission must be presented from the following subjects in the amount indicated; the time element is essential:

Required Subjects—	Points
English.....	4
History (European) ^a	2
Languages (Foreign) ^b	6
Mathematics.....	4
Science (Laboratory) ^c	2

Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school.....	12
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Total.....30

a History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.

b Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.

c Science: It is recommended that Physics be offered in meeting the science requirement. While Chemistry is not among the required entrance points, students will find it of great advantage to have a year of high school chemistry for entrance.

College Credits. To fulfill the two years college requirement demanded for entrance to the College of Medicine the prospective student must present credentials showing the completion of work equivalent to 60 university "hours" and including:

Physics, 6 hours; Zoology, 6 hours (including vertebrate Anatomy); Chemistry, 10 hours; German, 10 hours.

Conditional admission is allowed with a minimum of 51 hours if the character of the student's preparation is such that during the first year

and the following Summer Session, in which is permitted registration up to 9 credit hours, all deficiencies can be removed and the work of the first year also be completed in full.

Entrance from "Accredited" Schools. The University maintains a list of "accredited" high schools and academies whose *graduates* are admitted to any undergraduate college or school of the University without examination in those subjects in which their work is duly certified. A candidate for admission submitting credentials from a non-accredited school or from an accredited school without being graduated must be prepared to take examinations. A student desiring to ascertain in advance of the opening of the school year whether or not he may be admitted to the freshman class should apply to the Registrar of the University for blank credential slips; when these are properly filled out and returned, he will be informed at once whether or not his credentials are acceptable, and what will be required of him. In all cases the entrance credits are passed upon by the Registrar in frequent consultation with the Inspector of Accredited Schools. It is highly desirable that all candidates for admission forward their entrance credentials at least one month in advance. Although properly prepared students who cannot enter at the beginning of the year may be admitted later, all students who can possibly do so are urged to be present at the beginning of the year. Students entering late are at much disadvantage and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session. However, plans are made so that students who enter at the opening of the second semester may arrange a suitable program of work.

Advanced Standing. Advanced standing may be granted under the following conditions: (1) Applicants for advanced standing must offer admission credits equal to those required by this college. (2) In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the M. D. degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college. (3) Students coming from other medical colleges of equal standing and maintaining the same entrance and course requirements are, on presenting certificates of honorable dismissal, admitted to the corresponding class in this institution. Students from medical colleges of less standing and not maintaining the same entrance and course requirements are only admitted to the class into which the subject credit secured entitles them to enter, and are also required to make

up all entrance deficiencies. (4) There will be no change in the practice heretofore observed concerning subject credit, the granting of which is at the discretion of the head of each department, subject to the meeting of such conditions or the passing of such examinations as he may with reason impose. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the head of any department has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the student of this College, and in case the work is not equal to such requirement the deficiency stands against the student as a "condition" till removed. In case subject credit is granted in excess of that previously done by students of the class into which the applicant enters, he is free to use the time thus gained in such extra work as he may elect. Thus students who come from high grade colleges and have completed a portion of the required work may be enabled to pursue studies for a master's degree or to go into advanced courses in any department in which they are prepared to work.

Adult Special Students. When circumstances are such as to allow it without detriment to the work of candidates for degrees, a student not seeking a degree may be admitted as an unclassified "Adult Special" student. A junior or a senior in the College of Arts and Sciences may, with the consent of the department involved, take any of the courses offered in the College of Medicine by registering as an unclassified student in this College and paying the laboratory fees attached to the course or courses chosen and also a *pro rata* tuition fee; provided, however, that the tuition charge for any course in the College of Medicine so taken by a student in either of the general colleges shall in no case be less than \$10.00 a semester.

Registration. Certain days at the beginning of each semester are allowed for registration. To promote prompt registration, a fee of \$3.00 is charged any student who, unless excused by the Dean, seeks to register outside of these days. A like fee of \$3.00 is charged for re-registration when made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student taking the college work required for entrance to the College of Medicine matriculates and registers in the College of Arts and Sciences until the necessary amount of college work is completed. A student taking the combined six-year course for the degrees of Bachelor of Science and Doctor of Medicine matriculates and registers only in the College of Arts and Sciences during the first two years of his work. He continues to register in the College of Arts

and Sciences during the next two years, or until he receives his B. Sc. degree; but he must also matriculate and register in the College of Medicine at the beginning of the third year's work and must register regularly thereafter in the College of Medicine. If he is a candidate for the A. B. degree, he must begin to register also in the College of Medicine not later than the beginning of the fourth year of his course, as at least four years' registration in a college of medicine is required of all who receive the M. D. degree. No regular student is registered for less than twelve (12) hours a semester without the Dean's permission, nor under any condition for more than eighteen (18) hours. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered, without written permission from the Dean. Students cannot attend classes for which they are not registered and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Secretary of the College.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is granted only under the following conditions:

1. The candidate must be twenty-one years of age.
2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission and must have paid all his fees.
4. He must have completed and have secured credit in all required subjects in the curriculum.
5. He must have pursued the study of medicine for at least four years and must have passed the necessary examinations and have received credit for at least four full years of instruction at medical colleges in good standing. The last year he must have taken in this institution.

REQUIREMENTS FOR THE SATISFACTORY COMPLETION OF A COURSE

The satisfactory completion of a course will be determined by the instructor in charge of the subject through examinations and other records of a student's work. In order to pass in a course a student must comply with the following requirements:

1. He must have attended at least 80 per cent of the scheduled lecture and recitation appointments in the course, and 85 per cent of all scheduled laboratory hours.

2. He must receive a final grade of at least 70 per cent in Freshmen and Sophomore subjects, and at least 75 per cent in Junior and Senior subjects.

A course, which for a good reason has not been completed, may if of passing grade, be marked incomplete "I." This "I" must be removed within one year otherwise the "I" becomes a condition "C."

REMOVAL OF CONDITIONS

A student who does not pass a course, provided the final grade is not below 60 per cent is "conditioned" in that course and is entitled to a re-examination at the next supplementary examination period. For a supplementary examination a fee of \$1 in each subject shall be paid. If by reason of illness or other extraordinary circumstances he does not appear at the time set for supplementary examinations, the faculty may by vote permit him a special examination. For such special examination a fee of \$2 in addition to the ordinary supplementary examination fee shall be paid.

A student conditioned in one or more lecture, recitation or laboratory courses at the end of either semester, shall be allowed until the following September supplementary examinations for the removal of his condition.

If a student falls below 60 per cent, or if he does not pass the supplementary examination he is "failed" in the course, and shall not have the privilege or a re-examination until after repeating the course in which he failed.

With the permission of the instructor in charge, attendance of vacation courses in this school or in courses at other institutions or private instruction by a member of the teaching staff may be accepted in place of attendance at the regular classes.

If a student fails, after repeating a course as provided in the foregoing paragraph, then he shall have no further privileges of instruction or examination in this school, unless by special vote of the faculty.

No student coming from another school will be allowed any privileges in this school which would have been denied him in the school which he leaves.

Absence or Withdrawal. The Secretary of the College of Medicine is the adviser of all students in the College of Medicine. He has a consultation hour, when students may call seeking advice touching their work. A leave of absence for a short time may be granted a student by the dean of his college. This leave is merely a justification for absence and not an excuse from any work. Students not previously excused must make request for excuse for absence within two weeks from the time the absence ceases. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Secretary grants him

permission to do so. If he is in good standing and is not a minor he is given honorable dismissal from the University at his own request; if a minor, at the request of his parents or guardian.

FEES AND EXPENSES

All fees excepting the diploma fee are payable in advance, to the secretary of the College. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration, save for causes beyond the student's control; in the latter case the refund can only be made upon written application to the Dean. The application must state the reason and be presented at the time of withdrawal from a course or the college. The scheduled fees in the College of Medicine are as follows:

Matriculation fee (charged once only for each degree).....	\$5
Diploma fee.....	5
Diploma fee, absentia, additional.....	10
Diploma, " <i>cum laude</i> ," fee.....	10

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

FRESHMAN YEAR

Tuition, First Semester.....	\$65.00
Tuition, Second Semester.....	60.00
Breakage Fee.....	10.00

SOPHOMORE YEAR

Tuition, First Semester.....	\$60.00
Tuition, Second Semester.....	60.00
Breakage Fee.....	10.00

JUNIOR YEAR

Tuition, First Semester.....	\$55.00
Tuition, Second Semester.....	55.00
Breakage Fee.....	10.00

SENIOR YEAR

Tuition, First Semester.....	\$55.00
Tuition, Second Semester.....	55.00
Breakage Fee.....	10.00

(Unused portion of breakage fee is returnable)

For elective courses requiring laboratory space, apparatus and material, an extra fee will be charged. This fee will be by agreement between the student and the head of department, and is based on the amount of material required. Special course fees or the fees of students taking part-time work shall be pro-rated on the basis of the number of hours of work. In no case shall the fee be more than fifteen cents for each hour of work. The minimum fee, however, is \$10.00. Breakage in the laboratory and damage to the College property will be charged to the individual or class responsible. In case the responsibility for the damage cannot be placed it will be charged to the class pro-rata.

EXPENSES

Board may be obtained in the vicinity of the College building at an average of \$4.00 per week. Comfortable rooms for individuals cost from \$6.00 to \$10.00 a month. Students rooming together may by this means obtain comfortable rooming quarters at approximately \$7.00 per month each. The average total cost of the students for the school year 1913-14, exclusive of books and instruments, but including all fees, was between \$385 and \$400. Many students expend more than this, some expend much less. Students should provide an allowance of \$50 per annum for books and instruments.

The Young Men's Christian Association offers to students in the College of Medicine special season tickets at a very small cost, granting the privileges of the Association Building. In a city the size of Omaha there are many opportunities for the students to defray a part of their expenses. The College of Medicine does not, however, guarantee employment. Through the Young Men's Christian Association, the Omaha Commercial Club and other agencies, employment has been and will continue to be obtained for a certain number of students.

GRADUATE WORK

Graduate work of two types is offered in the College of Medicine.

(1) Advanced study and research in one or more of the laboratory departments by students holding baccalaureate degrees from this institution or from some other university or college. Such study may lead to the degrees of Master of Arts or of Doctor of Philosophy and may be carried at the same time in a lengthened period of residence as part work in the regular medical schedule. The departments offering this work are included in the Graduate College of the University, the general requirements of which must be met by all candidates for these degrees.

(2) Work of a clinical character by graduates in Medicine serving internships or by graduates in Medicine working under direct faculty supervision. Such work may lead to the degree of Doctor of Medicine *cum laude* under the following conditions laid down by the faculty of the College of Medicine; the candidate must apply at the beginning of his internship or at least one year before he expects to come up for such degree; his work shall consist of original clinical data or experimental work together with general reading and critical survey of the literature bearing on his special subject, and shall be embodied in a typewritten thesis which, if accepted, shall be deposited in the Medical College library; the subject and preliminary outline of the work shall be approved by the faculty committee on graduate study, and throughout the year the work shall be under the supervision of two advisors appointed by the committee with the condition that one shall be a member of the laboratory faculty and the other (if candidate is an interne) the chief of staff of the hospital in which interne is serving; the final acceptance of the thesis shall be by unanimous vote of the faculty and only after its recommendation by the advisory committee and after an opportunity for its inspection by all members of the faculty.

GENERAL AND DEPARTMENTAL EQUIPMENT

The ground floor houses comfortable quarters for the men. A large locker room containing a steel locker for each student adjoins a lounging room and a room provided with shower baths. The woman students have also been provided with a very attractive rest room with cloak rooms adjoining.

This floor also accommodates the animal quarters, the operating room, postmortem and preparation room, room-size refrigerators, the office of the College paper, *The Pulse*, and various store rooms.

Direct current for arc lights for micro-photography and the projection lanterns is provided by a motor generator set installed in the engine room.

MEDICAL CHEMISTRY

The Department of Medical Chemistry occupies part of the third floor and has laboratories equipped for special courses in the subject. Special emphasis is given the subject, physiological chemistry, and for this work much equipment has been secured. A special preparation room, balance room and research laboratory have been provided.

PHYSIOLOGY AND PHARMACOLOGY

The laboratories of Physiology and Pharmacology consist of a main laboratory, 20 by 52 feet, giving ample accommodation to thirty students at any one time. A separate table with lockers and drawers is provided for each pair of students. Adjoining the main laboratory is a room, 20 by 20 feet for mammalian experimentation which will accommodate eight students. For private work, for research, for special experiments and for other purposes there exist a series of eight additional rooms having a combined floor space one and one-half times that of the main laboratory. They serve as offices and private laboratories for the department staff. One is a work shop, another an instrument room and one is used for photographic work. All the rooms are supplied with hot and cold water, gas, electricity, heat, ventilation, etc.

The equipment for carrying on the work consists, in addition to the ordinary class apparatus of kymographs, induction coils, moist chambers, levers, tambours, clocks, signals, animal boards, circulation schemes, electrometers, manometers, rheocords, tuning forks, glass-ware, chemicals, drugs, etc.

The more important of the special pieces of apparatus are a Jaquet and Dudgeon sphygmograph, Erlanger and Faught sphygmomanometers, hemacytometers and hemoglobinometers, Beckmann apparatus for freezing-points, Staudinger balance, Weston mil-ammeter and millivoltmeter, an artificial respiration machine, motors, centrifuge, gas measuring apparatus, mercury-pump, reflectoscope, myocardiograph, ophthalmometer, etc. Particularly worthy of mention are a Cambridge string-galvanometer and appurtenances for electrocardiographic work and a Rivett eight inch precision lathe.

A conference room for class quizzing, etc., is shared with other departments.

HISTOLOGY AND EMBRYOLOGY

The material equipment for realizing the function of the department is excellent. The laboratories are planned with special reference to the convenience of the student. The economy of time and effort on the mere mechanical side of the work is already telling a marked degree in real results. Although the main laboratory is a large room, sixty by twenty feet, thirty students working at individual desks have equally good light from north windows and skylights. Each desk faces the light and is provided with reagent drawers and microscope locker; also gas and artificial

light available at each desk when needed. There is a large sink at each end of the room and another in the center of the stone-topped demonstration table. The above arrangement practically eliminates noise and confusion incident to leaving seats for working equipment after the laboratory period has begun. The use of heavy rubber tips on the chair legs also does away with the noise from the cement floor. There is still space at the back of the room for glass cases to protect embryological models and demonstration preparations, and light enough to study them there.

Adjoining the general laboratory on one side is a small lecture room used by two departments and always available for quiz sections and lectures at all times during the laboratory periods. On the other side is a series of five smaller rooms for the varied needs of research, preparation and office work. These include a small research laboratory, office, drawing and chart room, a technique room large enough to provide for students who have time for this work, and a small supplementary technique and assistant's room. There is also a large photographic dark room used in common with Anatomy. In accordance with the tendency in modern laboratories, the new paraffin baths and incubators are electrically heated and automatically regulated to desired temperatures.

PATHOLOGY AND BACTERIOLOGY

The department occupies all of the main floor except the space used by the administrative offices of the College. The lecture room on this floor is used for clinical lectures and recitations as well as by the department. There are two large teaching laboratories, one for the bacteriology and general pathology and one for the clinical and special pathology of the Junior year. Each student is supplied with a microscope with oil immersion objective, and with such other apparatus and materials as are needed for the complete work of the various courses.

In the laboratory for bacteriology and general pathology is an electric incubator of sufficient capacity to hold all cultures which must be kept at body temperature. In addition, there is a low temperature incubator for the growth of gelatin cultures at a uniform low temperature. Six preparation tables each provided with sinks, hot and cold water, shelves for reagents, and lockers for necessary apparatus, make it possible to carry on the technic of the bacteriological laboratory with ease and comfort and without crowding. Metal animal cages beneath the preparation tables make provision for keeping under constant observation the animals which have been inoculated by the class.

In the equipment of the laboratory for clinical and special pathology the aim has been to provide examples of the various forms of clinical laboratory apparatus, in order that the student may, from his own results, form conclusions as to the comparative value of the different types of apparatus in general use for the investigation of any particular clinical field. In this way it is hoped not only to give the student familiarity with different methods which have the same aim, but also to help him decide which method he may consider most available in his own work in later years.

It has been the primary aim of the department to provide as completely as possible for teaching. However, the other functions of a properly organized department have not been neglected. In the equipment of the private laboratories ample provision has been made for research work and for the special serological and bacteriological work which has become so necessary in the proper clinical investigation of disease. It is the aim of the department staff to place the facilities of the laboratories at the service of the practitioner.

The dark room, for photomicrography and the photography of gross objects, is equipped with the latest type of apparatus.

ANATOMY

The Department of Anatomy, situated on the fourth floor, occupies the most sanitary and best lighted dissecting room in the country. The room has an asphalt floor fitted with drains to permit flushing and the whole space is divided into seven separate dissecting rooms arranged about a rotunda which is occupied by model cases, etc. A separate study table, dissecting table and sanitary wash-bowl is provided in each of the seven rooms.

Adjoining the main dissecting room are private laboratories, model rooms and the office of the department. The whole upper floor is splendidly lighted with the saw-tooth skylight system.

CLINICAL ADVANTAGES

University Free Dispensary

Clinical cases come to the College of Medicine from over the state of Nebraska and from western Iowa, though the Free Dispensary draws by far the larger number. This is particularly true since the College of Medicine has become an integral part of the University of Nebraska and is endeavoring in a measure to realize its obligation to the state. The hospitals men-

tioned in this catalog, affiliated with the College of Medicine, have shown a most gratifying willingness to receive these patients thus rendering the cases available for clinical teaching. The College of Medicine of the University acknowledges its obligation to the affiliated hospitals of Omaha.

The University Free Dispensary is located at 1716 Dodge street, in the center of the thickly populated downtown district. This dispensary was equipped during the summer of 1913, and opened for the reception of patients September 15, 1913. Separate services were established in the following subjects: internal medicine; surgery; eye, ear, nose, throat; pediatrics; gynecology, obstetrics; dermatology and genito-urinary; drug room and laboratory. Each service has its own rooms and equipment, and the entire dispensary is in charge of a trained nurse and an assistant. In addition to the regular dispensary services there has been established an out-patient department which is rapidly growing in importance. Through calls received from the Visiting Nurses' Association and the Associated Charities of the City of Omaha, many out-patients are cared for. These calls are answered first through the department of medicine and then assigned to other departments as the case demands. The University has access to the Union Pacific Dispensary where much valuable experience is gained in the treatment of fractures and minor injuries. The total number of dispensary cases cared for since the opening of the dispensary on September 15, 1913, is as follows:

September 15 to 30	1913.....	302
October	1913.....	856
November	1913.....	761
December	1913.....	824
January	1914.....	1,114
February	1914.....	743
March 1 to 15	1914.....	411

5,011

Dispensary Staff

Nurse in Charge—Lillian B. Stuff, R. N.

Internal Medicine—Dr. E. L. Bridges, Dr. Anderson, Dr. Bliss, Dr. Manning, Dr. Hall.

Surgery—Dr. Nilsson, Dr. Lieber, Dr. Morisson, Dr. Hollister, Dr. Hyde.

Eye, Ear, Nose and Throat—Dr. Potts, Dr. Wherry, Dr. Knode, Dr. Rubendall, Dr. Lindquest, Dr. Patton.

Pediatrics—Dr. Moore, Dr. Wigton, Dr. Hamilton.

Gynecology and Obstetrics—Dr. Taylor, Dr. Pollard, Dr. Fairchild.

Dermatology and Genito-Urinary—Dr. Schalek, Dr. Ballard, Dr. Kennedy, Dr. Dodge.

Drug Room—Blaine A. Young.

Laboratory—Dr. A. A. Johnson.

The Wise Memorial Hospital

This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick and iron construction, and is modern in every respect. There are eighty beds, a separate obstetric and children's ward, and two well equipped operating rooms. Two internes are chosen from graduating class each year for a service of one year. The laboratory is equipped with the apparatus necessary for clinical examinations. The location is within the down-town hospital district. The percentage of charity days in the Wise hospital is high, insuring a large amount of clinical material.

The Nebraska Methodist Hospital

The Nebraska Methodist Hospital, received 2,550 patients last year, of which number fully one-third were free patients. In this hospital the University of Nebraska College of Medicine has exclusive clinical privileges. The hospital contains 140 beds and is a new, commodious, fire-proof building, planned by one of the best architects in the country and embodying the most modern details of construction and arrangement. It contains an operating pavilion and amphitheater seating about 100 students and is furnished with the best appliances known. At this hospital weekly clinics are held throughout the session for the advanced class in surgery, internal medicine, ophthalmology and otology and neurology. From the graduating class three internes are selected for a year's service each, with provisional opportunities for extended work.

The Child Saving Institute

The Child-Saving Institute situated just across the street from the College of Medicine occupies a modern building erected especially for its use. Its clinical privileges belong exclusively to the College of Medicine and are invaluable to the department of Pediatrics for work in clinical pathology and the general management and feeding of infants. There are from sixty to seventy-five children constantly at the Institute and all are under the direct supervision of the department of Pediatrics.

The Immanuel Hospital

In the Immanuel Hospital this College has exclusive clinical privileges. The hospital is well arranged and thoroughly equipped for the application of scientific methods to the treatment of disease. The hospital has one hundred and twenty beds housed in two buildings, one of which is new and thoroughly modern. The hospital laboratory is open to students detailed to work out clinical cases. Two operating rooms provide for simultaneous clinics in general and special surgery. Two internes are selected from each graduating class to serve one year. Opportunity is given them for special research work.

The Douglas County Hospital

The Douglas County Hospital, which is located within ten minutes' walk of the College building, cost \$200,000 and accommodates over three hundred patients. The hospital includes a maternity pavilion, an insane department and there has lately been added a pavilion for the modern treatment of cases of tuberculosis. This institution is in reality the charity hospital of Omaha and the surrounding country. Since cases illustrative of all diseases, acute and chronic, occurring in this section of the country are found here, the students of this college have exceptional opportunities for direct bedside instruction in all departments. Regular clinics are held weekly in surgery, medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians are appointed each spring for a term of one year. Always one and frequently both of these have been graduates of this College.

The Clarkson Memorial Hospital

The Clarkson Memorial Hospital, a new modern building, located at Twenty-first and Howard streets was occupied in the spring of 1909. It is a thoroughly modern hospital building, and has seventy beds and two operating rooms. The hospital affords opportunities for two internships. Clinics are held in gynecology, obstetrics, surgery and medicine.

The Swedish Mission Hospital

The Swedish Mission Hospital, located at 24th and Pratt streets, has a capacity of forty-five beds. The operating room has recently been remodeled and is modern in every way. A well equipped laboratory is at the disposal of the staff. An X-ray apparatus has been installed, and is used for diagnostic and therapeutic purposes. Special medical and

surgical clinics are held here by appointment. Two internes are appointed each year from the graduating class.

The City Emergency Hospital

The City Emergency Hospital, located at 912 Douglas street, contains fifty beds and is used primarily for contagious diseases. Through the City Health department, the students in medicine and in pediatrics are enabled to study carefully cases of scarlet fever, erysipelas, measles and diphtheria. Small pox cases are seen at the Isolation Hospital, also under City control. Clinics are held at these institutions whenever desired. During the past year diphtheria and scarlet fever have been carefully studied both at the Emergency Hospital and at the Child Saving Institute.

HOSPITAL APPOINTMENTS

The Glenwood Institution for Feeble Minded Children affords a salaried internship for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed each year. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year; three at the Nebraska Methodist Hospital; two at the Immanuel Hospital; one and frequently two at the Clarkson Memorial Hospital; one at the Wise Memorial Hospital; and one at the Swedish Mission Hospital.

Several graduates of the College secure positions each year in other hospitals in Nebraska and adjacent states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions. The proportionate number of these positions open to the college will thus be seen to be far beyond that open to the majority of medical colleges. Under present conditions all capable students desiring hospital training may obtain the inestimable advantage of a year's hospital service before entering upon private practice.

PUBLIC HEALTH

The College of Medicine as a state institution recognizes its duty to the state in all matters pertaining to the public health. The College stands ready to supply expert advise in co-operation with the state and local departments of health on general health conditions within the state. From time to time bulletins on general health topics, epidemic diseases, etc. are issued. Members of the faculty of the College of Medicine are frequently

called upon and will respond whenever possible for addresses on medical subjects which are of general interest. These addresses will be available for Teachers' Associations, Women's Club Meetings and the like.

The University College of Medicine is keenly alive to the possibilities which lie within the general theme "Conservation of Public Health" and every effort is made to bring important advances along the lines of better living before the people.

LIBRARIES AND SOCIETIES

The College of Medicine Library, in Omaha, contains about 3,000 volumes particularly strong in those scientific lines wherein lies the first two years work of the student of medicine. There is included a collection of text books covering the entire range of medical science. This does not obviate the necessity of students having their own text books, but offers opportunities for additional reading and study in subjects in which they are specially interested. Periodical literature is also on file. Fifty-six standard scientific periodicals are on the regular subscription list. Six others are received from private sources.

As additional sources of medical information may be mentioned the medical library of the Omaha-Douglas County Medical Society, temporarily stored in the Omaha Public Library.

The University Library, in Lincoln, containing over 111,000 volumes is freely accessible to students and faculty in Omaha. Books may be withdrawn at any time upon demand. Likewise through the University librarian at Lincoln it is possible for short periods to draw upon the resources of the John Crerar Library of Chicago or the Surgeon General's Library at Washington. The State Library of 85,000 volumes at the State Capitol and the Nebraska State Historical Society Library of 60,000 volumes include valuable medical works in certain lines; series of public documents such as reports of state boards of health and of state hospitals and other institutions.

The Alumni Association of the College of Medicine maintains an active and efficient organization, of advantage to both the graduates and the University. In order that the College may keep in touch with its Alumni they are requested to notify the Registrar or the secretary of the association when they change their address.

The Medical Society of the College of Medicine at Omaha is a student organization which holds meetings periodically. Addresses are

made by members of the faculty or others invited to do so, combining, therefore, intellectual with social activities. A similar organization exists at Lincoln to which any student of the University looking forward to Medicine is eligible.

Students in the pre-medical work at Lincoln have the privileges of all other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. At Omaha a student organization, the Gifford Tennis Association, gives ample opportunity for exercise upon three splendid courts.

The Clinical Review Week, tried as an experiment in the fall of 1910, and repeated in 1911 and 1912, has proven so successful that it has been determined to make it an annual affair. The dates selected in 1913 were October 13 to 18, inclusive; those for 1914 have not been selected, but will probably include the corresponding week. The forenoons are usually devoted to clinics, the afternoons to round-table discussions and the evenings to social pleasures.

The value of the Review Week to the busy practitioner can hardly be overestimated and the institution may be considered as established. One hundred and nineteen physicians registered for the week of 1913.

THE COLLEGE PAPER—"THE PULSE"

Several years ago the students of the Omaha Medical College, then in affiliation with the University of Nebraska, decided that they needed some medium of expression for the vigorous life of the school. Consequently they began the publication of a school paper known as "The Pulse." It met with instant success and a warm welcome from both faculty and students, and for several years was a truly live college paper. With the increase in the college course from four to six years, fewer juniors and seniors were left in the college and the paper ceased publication.

At the beginning of the present year, however, the situation changed. With the four years of medical work in Omaha, housed in new quarters, interest revived. The students re-established the old "Pulse," publishing it semi-monthly. The paper, "Representing the Students, Alumni and Faculty of the University of Nebraska College of Medicine," gives twenty-four pages of interesting reading.

MEDICAL INSPECTION OF SCHOOLS

During the year 1913-14 members of the University Free Dispensary staff assisted by senior students on assignment have undertaken a systematic medical inspection of the children of the South Omaha grade schools. This was made possible through the co-operation of the Superintendent of Schools of South Omaha and the Board of Education. A special report on this inspection will be published and will be available to any who wish copies. A general view has been had of the common preventable diseases of childhood and many examples of the value of medical supervision of school children have presented themselves.

MUSEUM

The pathological and anatomical museum of the Medical College contains about 2,500 specimens and is accommodated in a room adjoining the department of pathology. The specimens are being entirely re-classified, and remounted in flat jars, in order that they may be demonstrated by lantern projection. Nearly every variety of pathological lesion is represented and fresh material is regularly received from the affiliated hospitals. It is the intention that the museum shall be strictly a teaching adjunct to the departments of pathology and anatomy.

DISPENSARY STAFF MEETINGS

Meetings of the Dispensary Staff are held the first Saturday in each month, at the lunch hour, at the University Club, where interesting cases from the dispensary are reported and discussed. At such times the general conduct of the dispensary comes up for discussion, and many plans looking toward improvement are brought forward.

JOURNAL CLUB

The members of the Laboratory Staff at the building conduct a Journal Club which meets Saturday mornings at eleven o'clock.

CLINICAL CLERK SERVICE

Beginning with September, 1914, the senior class, in sections, will be placed on clinical clerk service in several hospitals. This service will be in addition to the scheduled clinics. The seniors will perform the work of the interne while on service and will have his assistance and co-operation as well as the direct oversight of the attending staff members. The service will be of one month duration.

STUDENT LOAN FUND

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of \$1,000 each to be used as a permanent loan fund for students needing assistance. The interest received from the loaning of this money goes to increase the fund. Application blanks and the full rules for administration may be obtained at the office of the Secretary. Loans will be made only to students in need of assistance, who have been matriculated for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits of temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to \$100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or withdraws from the University.

SCHOLARSHIPS

Scholarships are awarded in the various departments in return for students' assistance. Applications for scholarships should be made to the secretary or heads of departments. Announcement will be made later regarding an Alumni scholarship which has been assured.

PRIZES FOR RESEARCH WORK

A friend of the College of Medicine has offered the following prizes.

For Any Student—For the best piece of original work, clinical or experimental \$50.00. For second best \$25.00.

For Members of Clinical Faculty—For the best piece of original work, clinical or experimental \$100.00. For second best \$50.00.

Rules governing the submitting of theses are on file in the office of the secretary.

AFFILIATION WITH THE NATIONAL RED CROSS

The University Free Dispensary has affiliated with the National Red Cross Society in their campaign against tuberculosis and has undertaken the diagnosis and care of suspected and known cases of tuberculosis. Through the out-patient department of the dispensary these cases are followed and treatment administered. A careful account of cases of tuberculosis in Omaha and vicinity is kept and in this way effective object lessons relative to sanitation, crowding and contagion are taught patients and students.

THE ARRANGEMENT OF THE COURSES OF STUDY

In framing and adopting the present curriculum certain definite principles were relied upon for guidance.

1. That in the sequence of studies, in the total number of hours devoted to each subject and in the relative time devoted to laboratory, hospital and class work the experience of some of the leading medical schools of the country, as revealed in their respective catalogs would furnish an impersonal standard.

2. That the various courses of study in the curriculum possess such characteristics that it is not desirable that all should be handled alike. That, whereas, in some subjects intensiveness and concentration are desiderata in others greater efficiency is gained by covering the ground more slowly.

In Chemistry, Physiology and Pharmacology where experimental procedures call for uninterrupted consecutive hours for the completion of an experiment the maximum of blocking has been adopted. The students during the entire day are concerned with one subject only. In Histology a whole day at the microscope constitutes too great a strain on the eyes so that Histology divides the day with work in the dissecting rooms. The entire four years' work of the medical curriculum of 4,700 hours is, therefore, divided into blocks, each subject constituting a block and furthermore each block is as nearly as possible a multiple of thirty-six hour units. The blocking is most thoroughgoing in the early part of the first two years work and is gradually lost in the transition to the clinical work where blocking is non-existent.

A third principle governing the construction of the curriculum is that it must be elastic in order that it may rapidly with little friction adapt itself to growth in medical teaching. For this purpose correlation between adjoining subjects is left to the heads of departments and to the director of the laboratories who will reduce to a minimum unnecessary overlapping and arrange for the sequential presentation of subject matter.

To meet the differences in the mental capacities of students there are freely interspersed throughout the curriculum free hours or half days during which good students are free to elect additional work or otherwise.

FRESHMAN YEAR

FIRST SEMESTER	Lecture or Quiz	Clinic	Laboratory	Dispensary
Organic Chemistry.....	30		100	
Embryology.....	30		60	
General Histology and Or-				
ganology.....	60		100	
Anatomy.....	40		122	

SECOND SEMESTER

Anatomy.....	80		244	
Physiological Chemistry....	90		180	

(Credit hours are based upon an approximate equivalent of one hour credit for thirty-four hours work.)

SOPHOMORE YEAR

FIRST SEMESTER	Lecture or Quiz	Clinic	Laboratory	Dispensary
Neurology.....	20		60	
Physiology.....	160		192	
Pharmacology.....	50		115	

SECOND SEMESTER

Bacteriology.....	54		108	
Pathology.....	126		180	
Physical Diagnosis.....	36			18
Materia Medica.....	24			
Medicine.....	24			12
Obstetrics.....	36			12
Ophthalmology.....				12

Dispensary service required of Sophomores (in sections) during April and May.

JUNIOR YEAR

FIRST SEMESTER	Lecture or Quiz	Clinic	Laboratory	Dispensary
Medicine.....	54	36		54
Clinical Microscopy.....	36		72	
Applied Anatomy.....	54			
Materia Medica and Thera-				
peutics.....	54			
Obstetrics.....	36			
Surgery.....	54	54		
Eye and Ear.....	18			
Nose and Throat.....	18			
Physical Diagnosis.....				54
Nose and Throat.....				54
Pediatrics.....	18			

(Experimental Surgery, Elective—54 hours.)

SECOND SEMESTER	Lecture or Quiz	Clinic	Dispensary
Medicine.....	54	90	
Materia Medica.....	54		
Pediatrics.....	18		
Genito-Urinary.....	36		
Ophthalmology.....	18		
Surgery.....	54	72	54
Obstetrics.....	36		
Eye and Ear.....	18		54
Nose and Throat.....	18		

SENIOR YEAR

FIRST SEMESTER	Lecture or Quiz	Clinic	Dispensary
Public Medicine.....	18		
Pediatrics.....	18	36	
Skin.....	18	18	(Senior dispensary.)
Medicine.....	36	117	(Services elective.)
Surgery.....	36	99	(Five required during the year.)
Obstetrics.....	36		
Mental and Nervous dis- eases.....	18	36	
Gynecology.....		36	
Eye and Ear.....		36	
Nose and Throat.....		36	
SECOND SEMESTER			
Pediatrics.....	18	18	
Medicine.....	36	117	
Surgery.....	54	117	
Obstetrics.....	36		
Orthopedics.....		18	(Senior dispensary.)
Mental and Nervous dis- eases.....		18	(Services elective.)
Dermatology.....		18	(Five required during the year.)
Gynecology.....	36	36	
Eye and Ear.....		36	
Nose and Throat.....		36	

COURSES OF INSTRUCTION IN OMAHA

ANATOMY

Professor Poynter, Doctor Van Buren, Mr. Keegan, Mr. Geissler

1, 2, 3. **General and Practical Anatomy**—Covers a study of the entire human body. This work must be preceded by courses in general zoology, comparative vertebrate morphology and osteology. In the laboratory the student is required to make a complete dissection of half the body using charts, atlases and texts as guides; while his work is largely independent he will be required to submit to the department staff from time to time completed dissections to insure the development of a careful technique and a proper understanding of the regions studied. Lectures and laboratory, last three-quarters of the first year.

4. **Applied Anatomy**—Lectures illustrated by charts, lantern, museum specimens and demonstrations on the living subject. Designed to view anatomy from the standpoint of its application to medical questions. First semester, junior year.

ELECTIVE COURSES¹

5. **Topographical Anatomy**—A laboratory course devoted to the study of frozen sections and wet preparations.

6. **Special Genito-Urinary Anatomy**—A laboratory course dealing with the region in its relation to the work of the courses in gynecology and obstetrics. Limited to six students.

7. **Advanced Anatomy**—For those students who have completed the required work of the department and desire to fit themselves for some special field of work or carry out special investigations. Time and credit to be arranged.

¹ In all elective courses fees will be graduated to meet the course.

MEDICAL CHEMISTRY

Professor Cutter, Mr. Sinamark

1. **General Organic Chemistry**—A general survey of the important organic compounds especially those used in applied medicine. Compounds are prepared in the laboratory and their properties studied. First semester, freshman year.

2. **Biological Chemistry**—The organic compounds and chemical processes of physiological importance. A thorough laboratory course with ample experimentation to fix in mind the main chemical principles of food metabolism, body secretions, etc. Quantitative methods are employed in many determinations. Second semester, freshman year.

4. **Toxicology**—A laboratory and lecture course covering the common poisons, their antidotes with chemical behavior of same.

6. **Sanitary Chemistry**—A consideration of food adulterants and impurities with their detection; analysis of milk; or water. Considered especially in connection with state medicine and hygiene. Elective.

DERMATOLOGY AND SYPHILOLOGY

Professor Schalek, Doctor Ballard

Throughout the year the students are taken to the different hospitals by appointment to see interesting and rare cases of skin affections. Weekly recitations are given in both semesters to prepare a thorough foundation for the subject. At the University Free Dispensary the students are brought in personal contact with patients of whom they take entire care under the supervision of the attending physician. Special attention is given to the latest advances in syphilology. Salvarsan is discussed and its administration demonstrated. The students are made acquainted with all the new physical and other therapeutics in dermatology. During the second semester a weekly clinic is given at the Douglas County Hospital which affords abundant dermatological material. A fine collection of plates and photographs is available to be thrown on the screen for lectures and conferences.

1. **Dermatology**—Demonstrations of patients and new methods of treatment at the Methodist, Immanuel and Swedish Mission Hospitals by appointment. First and second semesters, senior year. Schalek

2. **Dermatology and Syphilology**—Clinic at the County Hospital, one and a half hours weekly. Demonstration of patients, discussion of treatment and lectures. Second semester, senior year. Schalek

3. **Dermatology**—Recitations with demonstrations of plates and photographs. One hour. First and second semesters, senior year. Ballard

4. **Dermatology and Genito-Urinary Diseases**—University Free Dispensary, two hours weekly. Examinations of patients and treatments given by students under supervision of attending physician. First and second semesters, junior and senior years. Schalek, Ballard

GENITO-URINARY SURGERY

Associate Professor Stokes, Assistant Professor Kennedy

A systematic course, including the use of the cystoscope and endoscope, is given on the diseases affecting the genito-urinary organs. In the dispensary clinic the practical application of these instruments, the use of sounds and local treatment of the mucous membrane of the urethra and bladder, are studied. Section clinics at the Douglas County Hospital offer opportunities for the study of venereal diseases. Operations upon the perineum testicle, prostate and bladder are performed with the assistance of members of the sections.

1. **Genito-Urinary Surgery**—One hour lecture. First semester, senior year. Kennedy

2. **Genito-Urinary Surgery**—1 continued. Second semester, senior year. Kennedy

3. **Genito-Urinary Clinic at Free Dispensary**—Two hours daily in sections, one month. First semester, junior and senior years. Kennedy, Dodge, Ballard

4. **Genito-Urinary Clinic**—3 continued. Second semester, junior and senior years. Kennedy, Dodge, Ballard

GYNECOLOGY

Professor Findley, Assistant Professor Pollard, Doctor Taylor, Doctor Fairchild

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological

lesions and operative procedures. The dispensary clinic, held daily at the University Free Dispensary, is regarded as a most important part of the clinical teaching. It is in these clinics that the student is trained in clinical diagnosis and where he may best be instructed in principles of treatment. One college clinic each week is held in the Clarkson Memorial or Douglas County Hospital throughout both semesters where cases are presented for diagnosis and treatment.

Opportunity is afforded for making bimanual examinations under anesthesia in the clinics and for assisting in the operations.

1. **Gynecology**—Subject covered by didactic lectures and oral quiz two hours each week. The didactic lectures and quizzes are supplemented by epidiascope illustrations, demonstrations of instruments, casts and pathological specimens. A special feature of the clinic is the opportunity given each student to make examinations under anesthesia and to assist in operations. Two hours each day are devoted to clinics in the dispensary, where small groups of students are permitted to examine patients, to write histories, and to apply local treatments. First semester, senior year (a) Lectures. Demonstrations. Findley. (b) Hospital clinic. Findley. (c) Dispensary clinics. Pollard, Fairchild, Taylor.

2. **Gynecology**—1 continued. Second semester, senior year.

HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Sherwood

1. **Vertebrate Embryology**—A brief survey of vertebrate development with special reference to morphogenesis and histogenesis of organs. The course is arranged to correlate as closely as possible with those in histology and gross anatomy. Afternoons first six weeks. First semester, freshman year.

2. **General Histology and Organology**—This deals with the normal human histology supplemented by mammalian and vertebrate material of other types. Histological technique may be arranged for outside the regular hours. Afternoons, last twelve weeks, first semester, freshman year.

3. **Neurology**—Study of the microscopic anatomy of the human brain from serial sections with graphic reconstruction of the principal functional paths. Discussion of the methods of neurological study. Forenoons, first four weeks, first semester, sophomore year.

ELECTIVES

4. **Special Human Embryology**—Facts relating specifically to the development of the human ovum and later fetal stages, the membranes, development and histology of the placenta, external form and embryological malformations. Lectures, reading and demonstrations.

5. **Cytology**—An intensive study of intracellular structure with relation to the functional activities of the cell. A course which should precede histological research.

6. **Comparative Neurology**—A study of certain aspects of the nervous system of lower vertebrate as indicating the phylogeny of the human brain. Lectures and laboratory work.

Courses 4, 5, and 6 are elective to be specially arranged for, the credit value depending upon the time required for them.

7. **Graduate Courses**—The facilities are available for research on special problems within the field of the department, such work leading to graduate degrees under the rules of the Graduate College of the University.

HYGIENE AND PUBLIC HEALTH

Professor Towne

1. **Sanitation and State Medicine**—Relation of medical profession to public health. Theoretical consideration. Results of practical experience. Quarantine regulations of Nebraska. Air, water, climate, soil, heating, ventilation. Municipal and private water supply. Milk, disposal of wastes, Public and private management of transmissible diseases. Epidemics, contagion, and disinfection. Two hours lecture. First semester, senior year.

Towne

INTERNAL MEDICINE

Professor Bridges, Professor Milroy, Clinical Professor Crummer, Assistant Professor Bliss, Doctor Manning, Doctor Peterson, Doctor Hamilton, Doctor E. L. Bridges, Doctor Anderson, Col. J. M. Banister, M. D., U. S. A., Doctor Cloyd

1. **Physical Diagnosis**—General principles. Demonstration of topography of head, chest and abdomen. Physical signs in health studied by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. Second semester, sophomore year.

Anderson

2. **Internal Medicine**—General diseases, infections, diseases of the heart, lungs, liver, pancreas and kidney. All blood diseases including those of the spleen and lymphatic system; regular recitations held thereon taking up systematically their etiology, pathology, symptomatology, diagnosis, prognosis and treatment. Two hours last nine weeks. Second semester, sophomore year. Anderson

3. **Physical Diagnosis**—Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Two hours. First semester, junior year. Bliss

4. **Physical Diagnosis**—3 continued. One hour. Second semester, junior year. Bliss

5. **Internal Medicine**—2 continued. Three hours recitation and quiz, two weeks alternate dispensary service, two hours clinic. First semester, junior year. Peterson, Manning, Hamilton

6. **Internal Medicine**—5 continued. Three hours. Second semester, junior year. Peterson, Manning, Hamilton

7. **Tropical Medicine**—Lectures on the distribution, etiology, diagnosis, and treatment of such tropical diseases as are of practical importance to American physicians in view of our increasing commercial intercourse with tropical countries by reason of our possessions in the West Indies, Panama Canal Zone, and in the Islands of the Pacific. The endemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control, and suppression of the same. One hour lecture. First semester, senior year. Banister

8. **Life Insurance Examinations**—The nature and growth of life insurance; elementary principles of life insurance; duties and responsibilities of examiners; influence of different diseases, heredity, occupation and habits on expectancy of life; proper technique in examining applicants for life insurance. First semester, senior year. Cloyd

9. **Medical Conferences**—Reports of cases on clinical clerk and extern services. One hour. First semester, senior year. Milroy

10. **Medical Conferences**—9 continued. One hour. Second semester, senior year. E. L. Bridges

11. Internal Medicine Clinics—

- a. Wise Hospital—2 hours. First and second semesters,
junior year. Goetz
- b. County Hospital—2 hours. Second semester, junior year.
Bliss
- c. Methodist Hospital—2 hours. First and second semesters,
senior year. W. O. Bridges
- d. Clarkson Hospital—2 hours. First and second semesters,
senior year. Crummer
- e. County Hospital—2 hours. First semester, senior year.
Milroy
- f. Dispensary service (see schedule).
- g. Clinical Clerk Service (see schedule.)

LARYNGOLOGY AND RHINOLOGY

Professor Owen, Doctor Wherry, Doctor Rubendall

1. **Physiology and Appearance of Nose, Throat and Larynx—**
Examination of each with special reference to the normal. Use of instruments. One hour lecture and one hour demonstration. First semester,
junior year. Wherry, Rubendall

2. **Diseases of the Nose, Throat and Larynx** with pathology, diagnosis and treatment. One hour lecture. Second semester, junior year.
Owen

3. **Diseases of Nose and Throat**, lectures and clinic. County Hospital.
First semester, senior year. Owen

4. **Diseases of Nose and Throat**—Course 3 continued. County Hospital. Second semester, senior year. Owen, Wherry

5. **Dispensary**—Services of one month, daily. First semester, junior and senior years. Owen, Wherry, Rubendall

6. **Dispensary**—Course 5 continued. Second semester, junior and senior years.

MEDICAL JURISPRUDENCE

Mr. Page

1. **Medical Jurisprudence**—Physicians' contracts, general medico-legal relations. Expert testimony. Malpractice. Life insurance examinations. Injuries and deaths. Poison, identity, and survivorship. Sexual relations. Quarantine sanitation. Medical legislation. Twelve lectures.
Second semester, senior year. Page

NERVOUS AND MENTAL DISEASES

Professor Aikin, Doctor Mogridge

1. **Lectures on Diseases of the Nervous System**—Lectures on the causes of nervous diseases, and the general symptoms. Diagnosis and methods of examination. Diseases of the peripheral nerves. Motor neuroses of spinal nerves. Sensory neuroses of cerebro-spinal nerves. Diseases of the spinal cord. Degenerative diseases. Muscular atrophies. Diseases of the brain. Function neuroses. Insomnia and neurological therapeutics. One hour lecture. First semester, senior year. Aikin

2. **Lectures on Diseases of the Mind**—Definitions, classification, general etiology, general pathology. General psychology and the psychogenetic factors in the etiology of mental diseases. General symptoms and symptom groups. Examination and diagnosis. Functional psychoses; organic psychoses. All lectures will be illustrated by clinical cases at the Methodist, Immanuel, and Douglas County hospitals. At the Douglas County Hospital students are assigned cases for examination, diagnosis and treatment. One hour lecture. Second semester, senior year. Aikin

4. **Lectures on Mental Enfeeblement**—This course considers the cause, manifestations and diagnosis of mental enfeeblement. Six lectures one hour each on idiocy, imbecility, moron, epilepsy, paralysis and cerebral palsies of children, and one day spent in clinics at the Glenwood, Iowa, Institute for the Feeble Minded. Second semester, senior year. Mogridge

OBSTETRICS

Professor Somers, Assistant Professor Pollard, Doctor Taylor

1. **Anatomy and Physiology of Female Reproductive Organs**—Physiological pregnancy, hygiene and management of pregnancy. Two hours. Second semester, sophomore year. Taylor

2. **Pathological Pregnancy, Physiological Labor, Pathological Labor, Physiological Puerperium**—Two hours. First semester, junior year. Pollard

3. **Pathological Pregnancy, Physiological Labor, Pathological Labor, Physiological Puerperium**—2 continued. Two hours. Second semester, junior year. Pollard

5. **The Hemorrhages**—Antepartum, partum, and post-partum. The Toxemias-antepartum, partum, and post-partum. Pathological puerperium, obstetric surgery, physiology and pathology of newly born. Two hours. First semester, senior year. Somers

6. **The Hemorrhages**—5 continued. Two hours. Second semester, senior year. Somers

7. **Practical Obstetrics**, anasthetics in labor and the conduct of normal labor. Cases on call, junior year. Somers, Pollard

8. **Pathology**—Normal and morbid anatomy of the placenta and the pregnant and puerperal uterus. Practical demonstrations in the laboratory. One hour. First and second semesters, junior year. Pollard, Taylor

ATTENDANCE ON OBSTETRICAL CASES

The Lying-in Dispensary and the various hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of the senior class under direction. During such attendance, the student is excused from other college exercises. Under direction and in presence of the professor or one of his assistants, he makes examinations, both by abdominal and vaginal palpation, suggests diagnosis, studies the progress of labor and in case operative procedure is necessary, witnesses and assists at operations. Each student is shown one or more cases during the last semester of the junior year, special opportunities being offered to students remaining in the city during the summer months. An obstetric clinic by appointment on Saturday afternoons and on other days out of lecture hours is in successful operation in connection with this department, at which students are taught antepartum diagnosis, physiological and pathological pregnancy, and shown cases of interest that may be under observation at the time. All material for six months of the year at the County Hospital is utilized for this purpose. Written reports of all clinical work are required and every student must have reported twelve cases of confinement before coming up for graduation.

OPHTHALMOLOGY AND OTOTOLOGY

Professor Gifford, Doctor Lemere, Doctor Patton, Doctor Potts

1. **Ophthalmology**—General examination of the eye with special reference to the normal. Principles of refraction with practical exercises in groups at dispensary. Use of ophthalmoscope, etc., with practical demonstrations. One hour. Second semester, sophomore year. Potts

2. **Ophthalmology**—External and internal diseases of the eye and their differential diagnosis. Lecture and quiz, one hour. First semester, junior year. Patton

3. **Otology**—Special diagnostic methods with use of instruments. Non-surgical diseases of the ear. Practical work in dispensary. One hour. Second semester, junior year. Lemere

4. **Diseases of the Eye and Ear**—Lectures and clinics at Methodist Hospital. Cases followed by clinical clerks on service. Treatment and diagnosis. One and one-half hours. First semester, senior year. Gifford, Patton

5. **Diseases of the Eye and Ear**—Course 4 continued. One and one-half hours. Second semester, senior year.

6. **Dispensary**—Junior and senior services required one month each. Potts, Lindquest, Knode, Callfas

ORTHOPEDIC SURGERY

Professor Lord

1. **Orthopedic Surgery**—Diseases of bones and joints, synovas, and bursae. Congenital and acquired deformities and diseases producing deformities. The prevention of deformities and dystrophies with principles of treatment. Subjects illustrated by photographs, slides, etc. One hour. First semester, senior year. Lord

2. **Orthopedic Surgery**—One hour clinic. Clarkson Hospital. Second semester, senior year.

PATHOLOGY AND BACTERIOLOGY

Professor Schultz, Doctor Johnson

1. **Bacteriology and Protozoology**—The course aims to develop proper laboratory technique and to give a working familiarity with the more important and typical pathogenic micro-organisms. The work of the course is arranged as indicated below. Six hours laboratory, three hours lecture and one hour recitation. Second semester, sophomore year.

1a. **Bacteriology**—Training in cultural methods is developed through actual work upon the pathogenic schizomycetes and eumycetes. Representative forms rather than numbers of closely related species are selected for study. Ten hours per week during the first fifteen weeks of the semester.

1b. Protozoology—Because of the bearing of recent cytological investigations upon certain of the problems of cellular pathology and physiology considerable attention is paid to the general biology of the protozoa, this aspect of the work being illustrated as much as possible by the study of the more important pathogenic protozoa. The diseases and tissue reactions set up by protozoa are considered in the course in pathological histology. Ten hours per week during the final three weeks of the semester.

1c. Infection and Immunity—To illustrate the mechanisms concerned in infection and in immunity experimental work is carried on in connection with the bacteria studied. The microscopic study of the lesions experimentally produced helps to bridge over the gap between laboratory bacteriology and pathological histology.

2. The Principles of Pathology—A series of lectures devoted to the discussion of the fundamentals of general pathology. One hour lecture. Second semester, sophomore year.

3. Pathological Histology—A study of lesions and of the general pathological processes concerned in their production, especial attention being paid to inflammation, to the tissue reactions of the specific infections and to tumors. While the primary aim of the course is the study of general processes, these are illustrated wherever possible by lesions which show the modifications of the various general pathological processes in the different organs and tissues. The gross pathology of the processes considered is illustrated by museum preparations and by such fresh material as is available from time to time. Eight hours of laboratory work, three hours lecture and one hour recitation. Second semester, sophomore year.

4. Pathological Technique—Students are required to stain and mount their own sections, one hour per week, not included in course 3, being set aside for this purpose. In addition to the routine staining of class sections, the special methods of use in pathological histology are practiced. Training in the preparation of pathological tissues for microscopic study is obtained upon the material of the experimental work in infection. One hour. Second semester, sophomore year.

5. Clinical and Special Pathology—The primary aim of this course is to familiarize the student with the apparatus, methods and technique of the clinical laboratory. Especial attention is paid to methods applicable in general practice, the results of such practical modifications being compared with those obtained by more exact methods and apparatus. The gross and

microscopic pathology of the various organ systems are considered in connection with the chemical and microscopic methods applicable to the various systems. Four hours laboratory, two hours lecture, and one hour recitation. First semester, junior year.

6. **Autopsy Technique**—Junior students are required to attend the autopsies held by the staff. For each autopsy two students are assigned as assistants, and two as clerks. The students so assigned are required to prepare the tissues for microscopic study and to present a complete protocol. It is believed that in this way each student will have had a share in at least four autopsies during the year.

ELECTIVE COURSES

The following elective courses are open to those who have completed courses 1, 2, and 3.

7. **Public Health Bacteriology**—A laboratory course intended to give instruction in the methods of bacteriological analysis of water, milk, sewage and foods.

8. **Immunology**—Laboratory work and assigned reading aiming at more detailed knowledge, especially of the methods which have clinical application, than is possible from course 1c.

9. **Experimental Pathology**—The study of physiological abnormalities induced by experimental procedures.

10. **Clinical Pathology**—Advanced work in the hematological and chemical study of clinical cases.

11. **Research**—The facilities of the department are available for original investigation upon presentation by the applicant of evidence of adequate preliminary training.

PEDIATRICS

Professor McClanahan, Doctor Christie

1. **Pediatrics**—Gastro-intestinal diseases, diseases of nutrition, and important part played by errors of diet in their production. The history and technique of intubation. Clinics, at Child Saving Institute, where many cases of ordinary affections of infancy and childhood furnish practical applications. One hour lecture, one hour clinic. First semester, senior year.

McClanahan

2. **Pediatrics**—1 continued. One hour lecture, one hour clinic. Second semester, senior year.

3. **Care of Children**—Instruction in the care, hygiene and feeding of infants; cranial measurements and physical development. Milk modification in all its methods including practical work at the Child Saving Institute and at the Clarkson Hospital. Diseases of new born and diseases of nutrition. One hour lecture, one hour clinic. First semester, junior year.
Christie

4. **Care of Children**—Course 3 continued. One hour lecture, one hour clinic. Second semester, junior year.

PHARMACOLOGY

Associate Professor Pilcher

As the prescribed course comes early in the medical curriculum the aim of the department is twofold; firstly, further to help the student acquire careful habits of observation and of drawing logical conclusions from the observed data; secondly, the acquisition of facts concerning the physiological action of those drugs, especially, which are used in clinical medicine.

1. **Elementary Pharmacy and Principles of Prescription Writing**—The term "Pharmacy" is construed liberally; the course will include sufficient laboratory and didactic work to enable the student to become familiar with the various pharmaceutical preparations used in therapeutics. Laboratory and didactic practice in the methods of writing acceptable prescriptions; of compounding prescriptions, agreeable in appearance and taste; the avoidance of incompatibilities, etc.

2. **Experimental Pharmacodynamics**—Experimental laboratory work on cold blood animals and mammals. Experiments are performed by the students, written observations noted and conclusions drawn. In the laboratory period the members of the classes alternate in collecting and classifying the data obtained by the individual students and groups of students. These class reports are presented and discussed in frequent conferences. The object of this method of presenting the work of the entire class by one or two students is to familiarize each student with methods of classifying and presenting experimental data in a clear, concise manner. 15 to 18 laboratory periods of 3 to 4 hours each; with one or more conference periods for each laboratory period.

3. **Didactic Pharmacology**—By means of lectures and quizzes individual drugs are studied; this includes both the locally and systemically acting drugs, constant reference being made to the results of the laboratory course. This course includes the following subdivisions: (a) The discussion of the physiological action of drugs, special emphasis being laid on the therapeutic application of the knowledge required. (b) The practical application of the principles of toxicology acquired in the related departments of chemistry and pharmacology. (c) *Materia Medica*: while studying the individual drugs the student will familiarize himself with the appearance and physical properties of the preparation of the drug; the dosage methods of dispensing, etc.

4. **Elective Work**—As time and opportunity permit elective courses along experimental lines will be offered to a limited number of members of the upper classes. Not more than one course of about 20 hours will be offered in one year.

PHYSIOLOGY

Professor Guenther, Doctor Mitchell, Doctor Fricke, Mr. Meyer

A consideration of the facts and theories of normal vital phenomena. Special elective courses.

1. **Physiology**—Lectures, conferences and quizzes. Laboratory work and demonstrations. First semester, sophomore year.

4. **Elective Courses**—Of special medical interest. Arranged as to content and time for juniors and seniors, for candidates for advanced degrees, for practitioners and for special students. One hour credit.

SURGERY

Professor Jonas, Professor Davis, Professor Summers, Doctor Kennedy, Doctor Morison, Doctor Stokes, Doctor Hollister, Doctor Hall

The course in Surgery aims to give the student a thorough understanding of the principles of surgical pathology, surgical diagnosis and rational treatment and does not attempt in the undergraduate courses the development of surgical operative technique. Minor surgical technique is taught in the dispensary and clinics, including numerous practical exercises in surgical asepsis, and the student is prepared to perform such operations as would come to the practitioner as emergencies or in the course of general work.

For surgical courses leading to general surgery the student is referred to graduate courses which may be arranged by consultation with the head of the department.

1. **Principles of Surgery**—A full description of the classes of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Topics assigned for recitation and quiz covering lectures on principles of surgery, surgical pathology of tumors, the practice of surgery, fractures and dislocations. Five hours. First semester, junior year. Davis, Hull, Hollister

2. **Principles of Surgery**—1 continued. Five hours. Second semester, junior year.

3. **Practice of Surgery**—Clinics amplified by lectures on surgical diagnosis, pathology and treatment. Cases assigned for clinic are reported by special groups of senior students with complete data regarding diagnosis treatment, etc., of each case. All reported or operated cases followed in the wards by clinical clerks on service. Methodist Hospital. One hour lecture, one hour clinic. First semester, senior year. Jonas

4. **Practice of Surgery**—3 continued. Methodist Hospital. One hour lecture, one hour clinic. Second semester, senior year.

5. **Quiz on Practice of Surgery**—Covering cases reported on or shown in course 3. One hour. First semester, senior year. Kennedy

6. **Quiz on Practice of Surgery**—Covering cases reported or shown in course 4. One hour. Second semester, senior year. Kennedy

7. **Fractures and Dislocations**—Preparation, application and uses of plaster bandages and casts. Practical work in plaster at College building and in the dispensary. Laboratory and clinic. Two hours. First semester, senior year. Hollister

8. **Operative Technique**—Students required to master details of the more common operations; ligations, amputations, excisions, paracentesis, celiotomies for various abdominal diseases, rib resection and trephining. One hour. Second semester, senior year. Morison

9. **Oral Surgery**—Lectures on the surgery of the mouth in its relation to diseases of the teeth and alveolar processes; care of teeth and influence of neglect of mouth in production of general and stomach disorders. Second semester, senior year. Hunt

11. **Experimental Surgery**—Intended to familiarize students with principles of surgical technique, asepsis, preparation of supplies for operation, use of instruments, preparation of patients for operation, and care of patients after operation. These points are developed by operations done on animals with the same care that such operations are done on human beings, Two hours. Second semester, junior year. Stokes

13. **Surgical Clinics**—

- a. Immanuel Hospital—Three hours. First and second semesters. Junior year. Davis, Hull
- b. County Hospital—Two hours. Second semester. Junior year. Hollister
- c. Methodist Hospital—Two hours. First and second semesters. Senior year. Jonas
- d. Clarkson Hospital—Two hours. First and second semesters. Senior year. Summers
- e. County Hospital—Clinics by appointment on time of clinic "d".
- f. Wise Hospital—One hour. First and second semesters. Senior year. Stokes
- g. Dispensary Service (see schedule).
- h. Clinical Clerk Service (see schedule).

THERAPEUTICS

Assistant Professor Goetz, Doctor Jefferson

1. **Therapeutics**—Discussion of all drugs which under the test of modern investigation have been found useful in the treatment of disease. Application of the scientific data obtained through pharmacodynamics. Questions of treatment considered as matters of direct argument from physiology and pathology rather than as mere memory work. Mechanical, physical and hygienic treatment discussed. Immunity and serum therapy. Personal quizzing; prescription writing. Two hours lecture or quiz. First semester, junior year. Jefferson

2. **Therapeutics**—1 continued. Second semester, junior year.

3. **Clinical Therapeutics**—Practical course. Necessity of definite plans of treatment based upon logical reasoning shown in the more prominent diseases. Embraces the direct application of all forms of therapeutic aid. Lectures, quizzes and clinics. In clinics special attention paid to an-

alyzing cases for therapeutic indications. One hour recitation, one hour clinic. First semester, junior year. Goetz

4. **Clinical Therapeutics**—3 continued. First semester, junior year.

5. **Clinical Therapeutics**—4 continued. Second semester, junior year.

6. **Seminar in Therapeutics**—Arranged at opening of school year. Each student makes an investigation and reports upon some of the modern specialized forms of therapeutics, such as the Nauheim treatment, the Carlsbad treatment, the Finsen treatment. Careful investigation of the topic with discussion by the class and criticism by the instructor. Senior year. By appointment. Goetz

MEDICAL WORK IN LINCOLN

No part of the medical course proper is done in Lincoln and none of the work done in Lincoln is credited in the College of Medicine, except as meeting the requirements for admission. There are, however, three groups of students whose work touches closely that of the College of Medicine or who are registered as students of that college. These are:

1. **Students of the College of Arts and Sciences** in the first two years of the six-year combined course leading to the two degrees B. Sc. and M. D., or taking the additional work leading to the degrees A. B. and M. D.

2. **Students of the School of Pharmacy**, which is, for administrative purposes, attached to the College of Medicine, but for which is issued a separate catalog and announcement.

3. **Students from the Lincoln Dental College**, taking work in classes arranged particularly for them, meeting all requirements as special students of the College of Medicine, paying all fees due from them as such, and standing in every respect in relation to the University as special students in that College.

The executive officer immediately in charge of these students is the Junior Dean and an informal organization of members of the faculty in charge of the courses required of such students known as the Junior Medical faculty handles such questions as may properly come before it, subject, in the case of students in the College of Arts and Sciences, to the rules and regulations of that College.

COMBINED ACADEMIC AND MEDICAL COURSES

Six-year Combined Course. In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This, however, can only be accomplished by following exactly the course as outlined below, substitution being permitted rarely and under conditions where insistence upon the strict enforcement of the requirements, would cause evident injustice. Any student failing to meet these requirements can secure his B. Sc. degree only by meeting the group requirements of the College of Arts and Sciences.

A student entering this University from another in which is offered a six-year combined course substantially equivalent to the one here outlined, may be registered in this course, on presentation of properly authenticated credentials showing the satisfactory completion of all requirements imposed by the institution from which he comes up to the time of his transfer.

Course Leading to the Degrees of A. B. and M. D.—A student registered for the degree of Bachelor of Arts may arrange a course similar to the course leading to the degrees of B. Sc. and M. D. by the same use of his electives, but he will find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED COURSE

	First Semester Hours	Second Semester Hours
FIRST YEAR		
Chemistry 1, 2.....	2	2
Botany 1, 2.....	3	3
General Zoology (Zoology 3, 4).....	3	3
Rhetoric 1, 2.....	2	2
Modern Language (German).....	5	5
Military Drill.....	1	1
	—	—
	16	16
SECOND YEAR		
Physics 11, 12.....	3	3
Volumetric Analysis (Chemistry 8).....	4	
Physical Chemistry (Chemistry 25).....		2
Medical Zoology (Zoology 15).....	2	
Vertebrate Anatomy (Zoology 7, 6).....	2	4
Modern Language (German or French).....	5	5
Pharmacy 42.....		1
History and Art of Medicine.....		1
Military Drill.....	1	1
	—	—
	17	17

Students entering without conditions but without two entrance points in chemistry take Chemistry D—4 hours— in the first semester of the

first year, and Chemistry 1 and 2—4 hours—in the second semester. Rhetoric 1 and 2 are postponed till the second year, replacing in the first semester Zoology 15 and in the second semester History and Art of Medicine, for which the additional chemistry is accepted as a substitute.

All students spending three years at Lincoln are urged to take Psychology (Philosophy 1 and 2) in the third year of their course.

ORDER OF SUBJECTS OFFERED TO DENTAL STUDENTS

	First Semester Hours	Second Semester Hours
FIRST YEAR		
Anatomy A 1, A 2.....	3	3
Embryology and Histology (Anatomy A 11).....	3	
Dental Chemistry (Chemistry 20).....		2
General Chemistry (Chemistry D), for those without two entrance points.....	4	
Physiology 2.....		3
SECOND YEAR		
Physiology 1.....	3	
Organic Chemistry (Chemistry 3a).....	3	
Pharmacology and Materia Medica 10.....		2
Dental Bacteriology (Bacteriology 2a).....		2

COURSES OF INSTRUCTION
IN LINCOLN

BACTERIOLOGY AND PATHOLOGY

Professor Waite

2a. Elementary Bacteriology—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. First and second semesters. Waite

BOTANY

Professor Bessey, Assistants

Five laboratories—general, advanced, and physiological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware and other supplies and apparatus.

1. General Botany—Introduction to structure of plants (cells, tissues, tissue systems). General morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester. Bessey

2. General Botany—The general morphology and physiology of representative species, including flowering plants. Continuation of course 1 and with it furnishing a basis for plant materia medica. Second semester. Bessey

CHEMISTRY

Professor Dales, Associate Professor Borrowman, Assistant Professor Fossler, Assistant Professor Frankforter

A general survey of chemistry, inorganic and organic, including the nature of chemical processes and the use of apparatus.

Instruction by the lecture-laboratory method.

Advanced students having the necessary experience and knowledge do research work under guidance.

D. The Non-Metallic Elements—This course is designed to give a general view of chemistry, including the general principles, and taken by students entering without a high-school course. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester. Dales

1. Qualitative Analysis—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 entrance points. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Borrowman

2. Qualitative Analysis—1 continued. Introduction to quantitative analysis included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Borrowman

1 and 2 (combined course). Qualitative Analysis. Prerequisite: Same as course 1. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester. Dales

3a. General Organic Chemistry—The important classes of organic compounds of the aliphatic and benzene series. Derivatives. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Four hours laboratory. Four hours credit. First semester. Fossler

8. Volumetric Analysis—A study of standard volumetric methods. One hour attendance. Ten hours laboratory. Four hours credit. First or second semester. Frankforter

20. Dental Chemistry—Chemistry and metallurgy as applied to dentistry. Two hours lecture. Four hours laboratory. Two hours credit. Second semester. Borrowman

25. Physical Chemistry—Elementary course; the general principles of physical chemistry with applications to chemistry and to other sciences. Required in six-year course; elective in four-year course. May be taken with course 3. Two hours credit. Second semester. Dales

FRENCH

(See "Romance Languages and Literatures" in the Bulletin of the College of Arts and Sciences).

GERMAN

(See "Germanic Languages and Literatures" in the Bulletin of the College of Arts and Sciences).

HISTORY AND ART OF MEDICINE

History and Art of Medicine—Lectures by Dr. Orr on the history of medicine including a review of medical literature, together with instruction in the use of the library, the compilation of a bibliography, and the presentation of a thesis. Lectures by Dr. Stevens on the duties and responsibilities of a physician; his relation to his fellow practitioners; the evolution of the art of medicine; and the various relationships of the profession to society in general. Two hours lecture. One hour credit. Second semester.

MILITARY SCIENCE AND TACTICS

(See Bulletin of the College of Arts and Sciences).

PHYSICS

Professor Skinner, Assistants

The department of physics occupies a building erected especially for the department, conveniently arranged, with all needed facilities, and well supplied with apparatus.

These courses are designed for those desiring a knowledge of the principle of physics and of its relation to other sciences and to natural phenomena. It is open to students who have completed the Medical College entrance requirements in physics.

11. Arts Course in General and Experimental Physics—Mechanics, sound, and heat. For the nature of this course and conditions for admission, see Bulletin of the College of Arts and Sciences. Three hours lecture, with illustrative experiments. Four hours laboratory. Three hours credit. First semester. Skinner

12. **Arts Course in General and Experimental Physics**—Electricity and light. Course 11 continued. Four hours laboratory. Three hours credit. Second semester. Skinner

RHETORIC

(See the Bulletin of the College of Arts and Sciences).

PHYSIOLOGY AND PHARMACOLOGY

Professor Lyman, Assistant Professor Day, Professor Stevens

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, digestion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses and reproduction. A combined lecture, demonstration and laboratory course. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Lyman

2. **General Animal Physiology**—1 continued. Second semester.

10. **Materia Medica**—A didactic and laboratory study of the origin, natural history, preparations, and methods of using individual drugs. For students of dentistry. Two hours attendance. Two hours laboratory. Two hours credit. Second semester.

Stevens, Lyman

42. **Pharmacy**—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy. Primarily for medical students. Three hours quiz and laboratory. One hour credit. Second semester.

Day

ZOOLOGY

Professor Wolcott, Professor Barker—in Anatomy, Doctor Hilton, Doctor Arnholt

The laboratory is fully equipped and a good reference library is accessible.

3. **General Zoology**—The lectures cover the general principles of morphology, physiology, development, distribution, classification and evolution of animals; laboratory work, an intensive study of a few selected types, together with a study of mitosis and cell cleavage and emphasis is laid upon

methods. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Barker

4. General Zoology—3 continued. Second semester.

A. General Zoology—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the same field as courses 3 and 4. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester. Barker

6. Comparative Vertebrate Anatomy—A general course forming with course 7 a year of vertebrate work. The class-work continues that of course 7 and completes a survey of the field. The laboratory work includes the dissection of a fish, amphibian, reptile or bird, and mammal, with demonstration from preparations in other groups. Three hours attendance. Eight hours laboratory. Four hours credit. Second semester. Wolcott

7. Comparative Osteology of the Vertebrates—A study in comparative morphology, with particular reference to the general plan of vertebrate structure and to the skeleton. The course serves as an introduction to course 6, and the two courses together form a year of vertebrate anatomy. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Should be preceded by courses 3 and 4 or A. Wolcott

15. Medical Zoology—Lectures on certain groups of Protozoa, Platyhelminthes, Nemathelminthes and Arthropoda which produce or transmit the diseases of men, with particular reference to their structure identification and life activities. The laboratory work includes a study of type forms and the required preparation of slides and serves as an introduction to parasitological technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Barker

ANATOMY

A1. Anatomy for Dental Students—A course in Human Anatomy covering the skeleton and the gross anatomy of the head, neck and arm, and open only to students registered in the dental college. Two hours attendance. Six hours laboratory. Three hours credit. First semester. Wolcott, Hilton, Arnholt

A2. Anatomy for Dental Students—A1 continued. Second semester.

A11. **Histology and Embryology**—A course arranged for dental students and covering the histology of tissues and certain organs, general embryology, and the special histology and embryology of the teeth. Open only to dental students and not accepted as a substitute for any other course. Eight hours laboratory, quiz and recitation. First semester.

Wolcott, Arnholt

The School of Pharmacy

OFFICERS OF ADMINISTRATION AND INSTRUCTION

- SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University
JAMES STUART DALES, M. Ph., Secretary of the University
¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University
Publisher.
VANCIL KELSO GREER, LL. B., Registrar and University Publisher.
ROBERT HENRY WOLCOTT, A. M., M. D., Junior Dean of the Col-
lege of Medicine.
- RUFUS ASHLEY LYMAN, A. M., M. D., Director of the School of Phar-
macy and Professor of Physiology and Pharmacology. (*Head of*
Department of Physiology and Pharmacology.) Nebraska Hall 7.
CHARLES EDWIN BESSEY, Ph. D., LL. D., Professor of Botany and
Head Dean of the University. (*Head of Department of Botany.*)
Nebraska Hall 104.
WILLIAM GRANGER HASTINGS, A. B., Lecturer in Pharmaceutical
Jurisprudence and Dean of the College of Law. University Hall 310.
HERBERT HAROLD WAITE, A. M., M. D., Professor of Bacteriology
and Pathology. (*Head of Department of Bacteriology and Pathology.*)
Nebraska Hall 302.
BENTON DALES, Ph. D., Professor of Chemistry. (*Head of Department*
of Chemistry.) Chemical Laboratory.
FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and
Parasitology.
GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.
Chemical Laboratory.
LEVA BELLE WALKER, A. M., Assistant Professor of Plant Pathology.
Nebraska Hall 105.
FRANCIS JOSEPH PERUSSE, Ph. C., Assistant Professor of Pharmacy.
ELSIE DAY, A. B., Ph. G., Assistant Professor of Pharmacognosy.
Nebraska Hall 7.
MARY LOUISE FOSSLER, A. M., Assistant Professor of Chemistry.
Chemical Laboratory.
NIELS PETER HANSEN, Lecturer in Commercial Pharmacy.
CLARENCE JACKSON FRANKFORTER, A. M., Assistant Professor
of Chemistry. Chemical Laboratory.
HARRY LANDIS THOMPSON, B. Sc., Assistant Instructor in Pharmacy
and Physiology.

¹ Resigned

ORGANIZATION

The interest in professional circles concerning the manufacture, dispensing and sale of drugs, poisons, and synthetics, together with the passage of the Food and Drugs Act, has placed upon pharmacy and pharmaceutical chemistry, and allied subjects, an importance never before enjoyed. The demand for skilled pharmacists was never so great as at the present time. The training as well as the general and technical knowledge demanded of applicants for positions by pharmacists, manufacturers, and the government is rapidly increasing. Thus while positions and opportunities in pharmaceutical work are on the increase, thorough, scientific training in the fundamental subjects has become imperative.

In view of these facts, the University, in the spring of 1908, organized the School of Pharmacy. The purpose of the school is to give the best possible general and technical training in order that students may become responsible dispensers, pharmaceutical manufacturers, food and drug inspectors, and analysts. Further, the University desires to co-operate with the professional men of the state in their efforts to improve and maintain professional standards in the interest of public health.

GROUPS AND DEGREES

Three groups of studies are offered, as follows:

1. **A Two-year Group**, leading to the degree of Graduate in Pharmacy (Ph. G.), which prepares directly for drug store and dispensing practice and provides the groundwork in analytical chemistry necessary for the drug business and the various phases of pharmaceutical manufacturing.
2. **A Three-year Group**, leading to the degree of Pharmaceutical Chemist (Ph. C.), giving the student a broader foundation and preparing him for a wider field of action. Its graduates are prepared to do analytical work for physicians or the public, to enter either the analytical or biological laboratories of the large manufacturing concerns, and to fill the government positions made necessary by the passage of the Food and Drugs Act.
3. **A Four-year Group**, academic and professional, leading to the Bachelor of Science degree. This course includes all the technical work of the two-year course with the privilege of election from the three-year course. Students completing this course are prepared to do graduate work, and if they so desire, may seek the degrees of the Graduate College.

REQUIREMENTS FOR ADMISSION

Applicants for admission present themselves to the Registrar, who furnishes them with application blanks and directions for proceeding with their examinations, if any, with registration and fee payments. Students may enter at the beginning of either semester, but for many reasons the first semester is preferable.

Entrance from Accredited Schools. A *graduate* of an accredited school, academy or high school, on presenting a certificate, is admitted without examination to any classes for which he is fully prepared. Any candidate for admission having credentials from a high school, college, or university not included in the list of schools accredited to this University must, in making application, forward his credentials to the Registrar and be prepared to take such examinations as are prescribed. A student desiring to ascertain whether or not he can be admitted to the first year should apply to the Registrar for blank credential slips. When these are properly filled out and returned, he will be informed at once whether his credentials are or are not acceptable.

Admission to All Groups. The requirements for admission to the School of Pharmacy are the same for all groups and are as follows: The candidate must present entrance "credits" equal to 30 "points," that is a total of 150 recitation or "credit" hours. Conditional admission is permitted on a minimum of 28 "points," that is, 140 hours.

A "credit point" means the work of five recitations a week, of not less than forty minutes each, for at least eighteen weeks. In laboratory courses a "credit point" means three recitations a week, plus two double periods of laboratory work under the supervision of an instructor.

The requirements in detail are given below.

Entrance Subjects (30 points). The 30 points required for admission must be presented for the following subjects in the amount indicated: the time element is essential:

Required Subjects—

	Points
English.....	4
History (European) <i>a</i>	2
Language (Foreign) <i>b</i>	6
Mathematics	4
Science (Laboratory) <i>c</i>	2

Elective Subjects—

Other subjects taught in an approved manner in an accredited secondary school.....

Total.....30

- a* History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- b* Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined academic-Medical course unless excused by the committee on accredited schools.
- c* Science: It is recommended that Physics be offered in meeting the science requirement.

Admission of Special Students. Students, not candidates for degrees, may register in the School of Pharmacy without conforming to the entrance requirements. The admission of special students is permitted after consultation with and upon the recommendation of the Director. Such students must pay the matriculation fee, the laboratory fees of the courses for which they register, and a pro rata tuition fee; provided, however that the tuition charge shall in no case be less than five (\$5) dollars a semester.

Registration. Students are required to register promptly at the beginning of each semester. To promote prompt registration a fee of \$3 is charged any student who, unless excused by the Chancellor, fails to register within the days set aside for this purpose. A like fee of \$3 is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. No regular student is registered for less than twelve (12) hours or more than eighteen (18) hours a semester. Students cannot attend classes for which they are not registered, and credit is not granted for studies pursued without registration. No student is allowed to change from one college to another without permission of the Registrar signed by the dean of each college concerned. A student so changing college must also pay a new

matriculation fee of \$5. No student may change his group or drop any study for which he has been regularly registered without written permission from the Director of the School. Any change in a student's residence must be immediately reported to the Registrar.

Absence or Withdrawal. A leave of absence for a short time may be granted a student by the Director of the School. This leave is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of the semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

Advanced Standing may be granted as follows to applicants presenting proper credentials: (1) Applicants for credit in any particular subject are referred to the head of the department in question for examination. In case subject credit is granted the student is free to use the time thus gained in such extra work as he may elect. (2) Students of pharmaceutical colleges or schools of equal standing are, upon presenting certificate of honorable dismissal, admitted to the class to which credentials issued by such colleges or schools entitle them. Applicants for advanced standing must offer admission credits equal to those required by this school.

REQUIREMENTS FOR GRADUATION

The requirements for the various degrees given by this school are as follows:

1. The moral character of the candidate must be unquestioned.
2. He must have complied with all the requirements of admission and have paid all fees.
3. He must have completed all required courses and have passed satisfactory examination on all required subjects in the curriculum.
4. His last year's work must be taken in this institution.

Experience in the business of pharmacy is not made a requirement for a degree.

EQUIPMENT

The laboratories of the University are well equipped with all the essential apparatus for giving the most thorough instruction. A more or less detailed description of the equipment is given under the description of courses by the various departments.

Libraries. The following libraries, aggregating 290,000 volumes, are accessible to students in Lincoln: The University Library of 111,000 volumes is strong in those scientific lines wherein lies the work of the student of pharmacy. It includes special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. The Lincoln City Library, of 34,000 volumes, also has an alcove devoted exclusively to medical and pharmaceutical literature. The State Library of 85,000 volumes at the Capitol includes valuable pharmaceutical works in certain lines. The Nebraska State Historical Society Library of 60,000 volumes contains useful series of public documents, such as reports of state boards of health and of state hospitals, pharmaceutical associations, and other institutions.

THE PHARMACEUTICAL SOCIETY

The Pharmaceutical Society is an undergraduate organization, the object of which is to bring the students into contact with the leading professional men of the state and elsewhere, and to promote the athletic and social life of the students. Membership in it is open to all students in the School of Pharmacy.

GENERAL UNIVERSITY PRIVILEGES

Students in the School of Pharmacy have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is also offered.

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

FEES AND EXPENSES

Fees. All fees and charges are payable in advance to the Secretary of the University. The incidental, library and matriculation fees will not be refunded in any case except when charged through official error. No laboratory or tuition fees or any portion thereof will be refunded to a student after the beginning of the fourth week from the date of his registration and refund will be made only upon written application to the Registrar, stating reasons and approved by the head of the department concerned, presented at the time of withdrawal from class or from the University together with the receipt for fees issued by the Secretary. Except in extraordinary cases not more than one-third of the laboratory fees will be refunded after the student has attended the laboratory.

The matriculation fee, being a statutory one, cannot be refunded except where collected through error. The schedule of fees in the School of Pharmacy is as follows:

Matriculation fee.....	\$5.00
Diploma fee.....	5.00
Registration (late registration).....	3.00
Library.....	1.00

No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.

TUITION FEES

Tuition, first semester.....	\$20.00
Tuition, second semester.....	15.00
For special examination, one subject.....	1.00

No tuition will be charged at present for the third year of the three-year course, the student paying only the laboratory and incidental fees for that year. Students taking the four-year course will pay tuition for only the third and fourth years, when they take the technical work.

LABORATORY FEES

Bacteriology	
Courses 2a, 3, 4.....	4.00
Botany	
Courses 1, 2.....	2.00
Chemistry	
Courses D, 1 and 2 combined, 3.....	10.00
Course 14.....	8.00
Courses A, B, 1, 2, 21, 22, 34.....	5.00
Courses 7, 8, 39, 40 (per credit hour).....	1.00
Courses 15, 16, 41.....	2.00
Pharmacy	
Courses 21, 22, 23, 24.....	\$7.00
Course 40.....	3.00
Courses 28, 41.....	6.00
Course 42.....	5.00
Courses 25, 31, 33 (for each credit hour).....	2.00
Physiology and Pharmacology	
Courses 1, 2.....	5.00
Course 8.....	8.00
Zoology	
Course 11.....	3.00

Expenses. In Lincoln, board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep a list of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

GROUPS OF STUDIES

Two-year Group, leading to the degree of Graduate in Pharmacy (Ph. G.).

FIRST YEAR	1st Semester	2d Semester
	Hours	Hours
Zoology 11.....	3	
Chemistry D.....	4	
Chemistry 1, 2 (combined course).....		4
Pharmacy 21, 22.....	4	5
Pharmacy 29.....		1
Physiology 1, 2.....	3	3
Botany 1, 2.....	3	3
	—	—
	17	16

SECOND YEAR		
Bacteriology 2a.....	2	
Chemistry 3, 7.....	5	3
Pharmacy 23, 24.....	3	3
Pharmacy (Pharmacognosy) 41, 40.....	5	2
Pharmacy 31.....	2	
Physiology and Pharmacology 8.....		5
Pharmacy (Prescriptions and Dispensing) 28.....		4
Pharmacy (Commercial) 30.....		1
Pharmaceutical Jurisprudence 1.....		
	—	—
	17	18

Three-year Group, leading to the degree of Pharmaceutical Chemist (Ph. C.). The studies for the first two years are the same as in the pre-

ceding course. The work of the third year is elective. The student may select work to the extent of 18 hours each semester from the advanced courses enumerated under the courses of instruction. This selection, however, must be made after consultation with the Director and the members of the faculty concerned.

Four-year Group ¹ leading to the degree of Bachelor of Science (B. Sc.). Details in regard to the non-technical courses which appear in this schedule, such as rhetoric, should be secured from the announcement of the undergraduate colleges.

	1st Semester	2d Semester
FIRST YEAR	Hours	Hours
Chemistry 1, 2.....	2	2
Botany 1, 2.....	3	3
Modern Language (German).....	5	5
Rhetoric 1, 2.....	2	2
Zoology 3b, 4b.....	3	3
² Military Drill (men).....	1	1
	—	—
	16	16
SECOND YEAR		
Bacteriology.....		2
Chemistry 3.....	5	
Chemistry 7, 8.....	5	5
Modern Language.....	5	5
Pharmacy 29.....		1
Military Drill (men).....	1	1
	—	—
	16	14

¹ Registration in the College of Arts and Sciences is necessary to enter this group.

² Four semesters of physical training, each giving one hour credit, are required of women. Four semesters of Military Drill, each giving one hour credit, are required of men.

THE UNIVERSITY OF NEBRASKA

	1st Semester	2d Semester
	Hours	Hours
THIRD YEAR		
Physiology 1, 2.....	3	3
Pharmacy 21, 22.....	4	5
Chemistry (Advanced Analytical) 39.....	5	
Chemistry (Physiological) 34.....		4
Pharmacy (Pharmacognosy) 41, 40.....	5	2
Pharmacy (Commercial) 30.....		1
Pharmaceutical Jurisprudence 1.....		
Chemistry 41.....		2
	—	—
	17	17
FOURTH YEAR		
Pharmacy 23, 24.....	3	3
Pharmacy (Manufacturing) 31.....	5	
Chemistry (Food) 14.....		5
Pharmacy (Prescription and Dispensing) 28.....		4
Pharmacy (Assaying, Pharmaceutical or Pharmacological) 25 or 33.....	5	
Physiology and Pharmacology 8.....		5
	—	—
	13	17

COURSES OF INSTRUCTION

BACTERIOLOGY AND PATHOLOGY

Professor Waite (*Head of Department*)

2a. **Elementary Bacteriology**—An introduction to the study of bacteriology. The relation of bacteria to other organisms. Their morphology and structure, chemical composition, and chemical changes which they produce. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Waite

3. **Dairy Bacteriology**—The source of bacteria in milk. Lactic and butyric acid fermentations, peptonizing, rennet-forming, and butyric acid-producing bacteria are discussed and some of the typical organisms isolated. Abnormal fermentations giving rise to slimy, bitter red, blue, yellow and green milk are elucidated. The relation of milk to the spread of tuberculosis, typhoid fever and other diseases. Sterilization and pasteurization. Bacteria in butter-making. Two hours attendance. Four hours laboratory. Two hours credit. First semester. Waite

4. **Agricultural Bacteriology**—The nitrogen problem. The role of bacteria in ammoniacal fermentation, nitrification, and denitrification. The use of bacteria as a means of reclaiming nitrogen lost from the soil. The practical employment of nitrifying bacteria and the employment of pure cultures in growing leguminous plants. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Waite

BOTANY

Professor Bessey (*Head of Department*), Assistant Professor Walker

1. **General Botany**—Introduction to the structure of plants, cells, tissues, tissue systems, including blue-green and green algae and general morphology and physiology of representative species. Three hours lecture. Six hours laboratory. Three hours credit. First semester. Bessey, Walker

2. **General Botany**—The general morphology and physiology of representative species of brown algae to flowering plants. Three hours lecture. Six hours laboratory. Three hours credit. Second semester. Bessey, Walker

CHEMISTRY

Professor Dales (*Head of Department*), Associate Professor Borrowman,
Assistant Professor Fossler, Assistant Professor Frankforter

REQUIRED

¹D. The Non-Metallic Elements—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry courses A and B before registering for 1. Such students will attend the same lectures as are given in course A and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Seven hours laboratory. Four hours credit. First semester.

Dales

¹1 and 2 combined. Qualitative Analysis—A study of qualitative reactions and separations, including the identification of common drugs and chemicals and the testing for impurities. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.

Borrowman

3. Organic Chemistry—The important classes of organic substances. Preparation of typical compounds. Prerequisite: Courses 1 and 2. Five hours attendance. Eight hours laboratory. Five hours credit. First semester.

Fossler

7. Quantitative Analysis—Gravimetric determinations of the more important basis and acids, including the assay of drugs. Prerequisite: Courses 1 and 2. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester.

Frankforter

OPTIONAL

A. General Chemistry—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Dales

B. General Chemistry—Continuation of A. Especial attention is given to the metallic elements, the more common organic compounds, and the applications of chemistry to every-day life. Prerequisite: Course A.

¹ Students desiring Chemistry who enter the University with two points credit should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register for D.

Three hours lecture. Four hours laboratory. Three hours credit. Second semester. Dales

8. **Quantitative Analysis**—7 continued. Volumetric analysis, electrolytic analysis, the sanitary analysis of water and the analysis of gases. One hour attendance. Five to fourteen hours laboratory. Two to five hours credit. Second semester. Frankforter

21. **Assaying**—Qualitative examination of ores. Blow-pipe and chemical tests for the common ores and minerals. Principles of fire assays for gold, silver, and lead in ores and metallurgical products. Prerequisite: Courses 1 and 2. Two hours lecture. Four hours laboratory. Two hours credit. First semester. Borrowman

22. **Assaying**—21 continued. Volumetric and gravimetric methods for the determination of silver, copper, zinc, lead, tin, and iron. Two hours lecture. Four hours laboratory. Two hours credit. Second semester. Borrowman

39. **Advanced Analytical Chemistry**—A more extended study of chemical analysis than that offered in courses 7 and 8. Laboratory practice leading to analytical research. Six to fifteen hours laboratory. Two to five hours credit. First semester. Dales

40. **Advanced Analytical Chemistry**—39 continued. Second semester.

41. **Toxicology**—Poison; chemical nature, antidotes and methods for detection. Prerequisite: Courses 1, 2, 3 and 34. Two hours lecture, one hour quiz. Three hours laboratory. Two hours credit. First semester.

15. **Organic Chemistry**—For students who desire a more extended knowledge of organic chemistry than that offered in course 3, or who wish to specialize. Prerequisite: Courses 1, 2 and 3. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Fossler

16. **Special Chapters in Organic Chemistry**—15 continued. Second semester.

34. **Physiological Chemistry**—The organic compounds and chemical processes of physiological importance, including a study of the chemistry of the urine. Useful in subsequent study of practical medicine. Prerequisite: Courses 1, 2 and 3. Four hours lecture. Eight hours laboratory. Four hours credit. Second semester. Fossler

14. **Food and Sanitary Chemistry**—Chemical processes of nutrition; valuation of foods, preservatives, cleansing agents, etc., with a practical

laboratory course in food and water analysis, including analysis of flour, milk, oils, etc., also the detection of adulterants and impurities. Prerequisite: Courses 1, 2 and 3. Five hours lecture. Twelve hours laboratory. Five hours credit. Second semester. Fossler

PHARMACEUTICAL JURISPRUDENCE

Professor Hastings

1. **Pharmaceutical Jurisprudence**—A series of six lectures concerning the legal status of the pharmacist. Second semester.

PHARMACY

Professor Lyman (*Head of Department*), Assistant Professor Perusse, Assistant Professor Day, Mr. Hansen, Mr. Thompson

21. **Pharmacy**—An introductory course in Pharmacy consisting of a study of weights, measures, specific gravity, vaporization, desiccation, distillation, sublimation, comminution, separation of fluids from solids, filtration, clarification and decoloration, precipitation, crystallization, separation of immiscible liquids, granulation, exsiccation, dialysis, extraction, expression, percolation, etc., and all elementary processes used in the preparation of medicines. Four hours attendance. Four hours laboratory. Four hours credit. First semester. Perusse

22. **Galenical Preparation**—A study of the pharmacopoeial preparations of waters, syrups, emulsions, glycerites, spirits, elixirs, ethereal solutions, liniments, oleates, infusions, decoctions, tinctures, fluid extracts, solid extracts, etc. Four hours attendance. Eight hours laboratory. Five hours credit. Second semester. Perusse

23. **Inorganic Pharmacy**—A course of study of the official inorganic compounds and preparations. The lectures cover the history, method of preparation, physical and chemical properties, and uses in pharmacy, of such substances as inorganic acids, bases, and salts. The laboratory consists of work in assaying the inorganic acids, bases, salts, and preparations; special tests, and a series of pharmaceutical assay problems. Three hours attendance. Six hours laboratory. Three hours credit. First semester. Thompson

24. **Organic Pharmacy**—A course of study of the official organic compounds. The lectures include history, methods of preparation; chemical and physical properties and uses in pharmacy of cellulose and its deriva-

tives, coal tar and its derivatives, starches, sugars, and gums, alcohol and its derivatives, organic acids, fixed and volatile oils, alkaloids, glucosides and animal products. The laboratory work is a course in identifying the alkaloids, the assay of certain fixed and volatile oils, and the assay of alkaloidal drugs; and a series of pharmaceutical organic problems. Three hours attendance. Six hours laboratory. Three hours credit. Second semester. Thompson

25. **Assay of Fixed and Volatile Oils**—A laboratory course in complete analyses of U. S. P. fixed and volatile oils, determining physical constants, tests for identification and impurities, and methods of assay of the chief constituents. Six to fifteen hours laboratory. Two to five hours credit. First semester. Thompson

28. **Prescriptions and Dispensing**—A detailed study of the prescription and the art of dispensing and compounding. Four hours attendance. Three hours laboratory. Four hours credit. Second semester. Perusse

29. **History of Pharmacy**—One hour attendance. One hour credit. Second semester. Lyman

30. **Commercial Pharmacy**—A series of lectures and demonstrations on the commercial aspect of pharmacy. One hour attendance. One hour credit. Second semester. Hansen

31. **Manufacturing Pharmacy**—Advanced work in pharmaceutical manufacturing. Six to fifteen hours laboratory. Two to five hours credit. First semester. Perusse

33. **Assaying**—Pharmaceutical or pharmacological assaying. Two to five hours attendance. Six to fifteen hours laboratory. Two to five hours credit. First semester. Lyman, Thompson

35. **Pharmacy Seminar**—A review of current pharmaceutical literature. One hour attendance. One hour credit. Lyman

36. **Pharmacy Seminar**—35 continued. One hour attendance. One hour credit. Lyman

40. **Pharmacognosy**—An advanced study of the drug-producing plants. Two hours attendance. Four hours laboratory. Two hours credit. Second semester. Day

41. **Pharmacognosy**—A study of the history, classification, constitution and the means of identification of the drug-producing plants. Five hours attendance. Six hours laboratory. Five hours credit. First semester. Day

42. **Pharmacy**—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy. Primarily for medical students. Three hours quiz and laboratory. One hour credit. Second semester. Day

PHYSIOLOGY AND PHARMACOLOGY

Professor Lyman (*Head of Department*), Mr. Thompson

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, digestion, absorption, blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses and reproduction. A combined lecture, demonstration and laboratory course. Three hours lecture. Four hours laboratory. Three hours credit. First semester.

Lyman, Thompson

2. **General Animal Physiology**—1 continued. Second semester.

8. **Pharmacology**—A study of the physiological action, dosage and uses of official and non-official drugs and poisons. An experimental study of a typical member of each group of drugs will be made. Special attention is given to the anesthetics, narcotics, glucosides, alkaloids and to the physiological assay of drugs. Five hours attendance. Four hours laboratory. Five hours credit. Second semester.

Lyman, Thompson

ZOOLOGY

Professor Wolcott (*Head of Department*), Professor Barker, and Assistant

11. **General Zoology**—The lectures deal with the general principles of animal morphology, physiology, and embryology. The laboratory work based upon a study of several invertebrates, and at least one vertebrate type, includes instruction in microscopical technique and in methods of gross dissection, and is designed to give a clear idea of the part played in the body by cells, tissues, and organs. Two hours lecture. One hour quiz. Four hours laboratory. Three hours credit. First semester.

Barker and Assistant

The School of Fine Arts

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Head Professor of Mathematics.

PAUL HENRY GRUMMANN, A. M., Director of the School of Fine Arts and Professor of Modern German Literature.

HARTLEY BURR ALEXANDER, Ph. D., Professor of Philosophy, in charge of Aesthetics.

¹ EVERETT NEWTON BOWMAN, 1st Lieutenant of Infantry U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics.*)

HENRIETTA McELROY BROCK, Instructor in China Painting.

RAYMOND GUSTAVUS CLAPP, Ph. B., M. D., Professor of Physical Education and Director of Men's Gymnasium. (*Head of Department of Physical Education.*)

CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures. (*Head of Department of Romance Languages and Literatures.*)

WILLIAM FRANCIS DANN, A. M., Professor of the History and Criticism of Fine Arts. (*Head of Department of the History and Criticism of the Fine Arts.*)

¹ ALICE BAIRD ENSIGN, A. B., Advisor to Women.

INA ESTELLE GITTINGS, A. B., Assistant Professor of Physical Education and Director of Women's Gymnasium.

MARY CATHERINE GRAHAM, A. B., Dean of Women.

FRED MORROW FLING, Ph. D., Professor of European History. (*Head of Department of European History.*)

PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of the Department of Rhetoric.*)

¹ Resigned.

- SARA SHEWELL HAYDEN, Associate Professor of Painting and Drawing.
- HARRIET ALICE HOWELL, A. M., Assistant Professor of Elocution and Dramatic Art.
- JAMES THOMAS LEES, Ph. D., Professor of Greek History and Literature. (*Head of the Department of Greek History and Literature.*)
- LOUISE EASTERDAY MUNDY, Instructor in Drawing and Painting.
- LOUISE POUND, Ph. D., Professor of the English Language.
- JESSE EPHRAIM RASMUSEN, B. Sc. in M. E., Assistant Professor of Applied Mechanics and Machine Design.
- CARRIE BELLE RAYMOND, Director of Music.
- ROBERT DOUGLAS SCOTT, A. M., Assistant Professor of English Literature.
- JOHN SINGLETON SWITZER, Major of Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics.*)
- ¹ CHARLES WILLIAM WALLACE, Ph. D., Professor of English Dramatic Literature.

Committees of the Faculty

- Collections and Exhibits—Alexander, Brock, Dann, Hayden.
- Advanced Degrees—Alexander, Dann, Hayden.
- Advanced Standing—The Chancellor, Director, Inspector of High Schools.
- Dramatic Organizations and University Plays—Howell, Conklin, Graham, Heppner, Pound, Scott.
- Musical Organizations and Musical Functions—Raymond, Alexander, Dann.

¹ Leave of absence.

ORGANIZATION

By the action of the Regents of the University of Nebraska, the School of Fine Arts was reorganized in July, 1912, as a part of the College of Arts and Sciences. The school includes the work offered in Aesthetics; Drawing and Painting; Elocution and Dramatic Art; the History and Criticism of the Fine Arts; Architecture; and Music.

The School of Fine Arts offers two special courses leading to the A. B. degree in the College of Arts and Sciences; in the first, Drawing and Painting form the nucleus; in the second, Dramatic Art. The purpose of these courses is primarily cultural, but they offer an excellent basis for advanced work in artistic technique.

ENTRANCE REQUIREMENTS

As a part of the College of Arts and Sciences, the School of Fine Arts maintains the following entrance requirements, which hold for all the undergraduate colleges of the University.

Required Subjects—	Points
English.....	4
History (European) <i>a</i>	2
Language (Foreign) <i>b</i>	6
Mathematics.....	4
Science (Laboratory) <i>c</i>	2
Elective Subjects—	
Other subjects taught in an approved manner in an accredited secondary school.....	12
Total.....	30

a History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.

b Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended.

c Science: It is recommended that Physics be offered in meeting the science requirement.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be

admitted to the general colleges as Adult Special students under such conditions as may be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon attaining regular undergraduate standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in military drill and physical training apply to Adult Special students as well as to candidates for degrees. Students in the School of Fine Arts and teachers in the city schools may be admitted as Adult Special students. Such candidates are required to offer satisfactory proof that they are prepared to do the work for which they wish to register.

Special Students. Although it is the main purpose of the school to encourage students of college grade to take up work in the fine arts, it is recognized that an opportunity should be offered for children and adult students of unusual talent, who are unable to satisfy the entrance requirements. Since these do not come under the regular category of University students, special fees ranging from \$10 to \$25 per semester will be charged.

REGISTRATION

Candidates for admission to any of the colleges or schools of the University must forward their entrance credentials to the University Registrar. On the opening of registration days of the semester, the candidate presents himself in person, at the Registrar's office (Administration Hall), where he receives instructions as to such other steps as may be necessary to complete his registration. Students who wish to enroll for the four-year special courses in Drawing and Painting or in Dramatic Art will consult the Director before completing their registration with the Dean of the College of Arts and Sciences.

REGULAR UNIVERSITY FEES

MATRICULATION

Matriculation fee.....	\$5.00
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INCIDENTAL

Incidental fee, each semester.....	3.00
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LIBRARY

Library fee, each semester.....	1.00
For non-resident students, each semester (Tuition).....	15.00

FINE ARTS

For special students not regularly matriculated in the University.

Drawing and Painting, including use of studio:

One lesson a week, each semester.....	\$10.00
Students under 16 years, one lesson a week.....	6.00
Two lessons a week, each semester.....	18.00
Three lessons a week, with use of studio daily, each semester...	25.00

China Painting, including use of studio:

One lesson a week, each semester.....	12.00
Two lessons a week, each semester.....	23.00
Three lessons a week, each semester.....	33.00

LOCATION AND EQUIPMENT

The School of Fine Arts occupies the third floor of the University Library Building. Here the fine arts collections of the University are housed in accordance with approved methods. The collections include twenty-five hundred prints of the masterpieces properly labelled and cataloged. Card catalogs of original paintings owned in Nebraska are also provided and are accessible to the public. An excellent collection of plaster casts and still life objects is on exhibition in the corridors and the gallery. The Fine Arts Gallery, a well lighted and spacious room, is provided with tables and may be used as a study room daily from 9 till 12 and 2 to 5. It contains copies of the masterpieces, kindly loaned by Professor Hayden, and the pictures of the Nebraska Art Association and the University, including the following paintings:

Edward H. Barnard—*The Landmark*, Lucy Conant—*The Marshes*, Andre Dauchez—*The Reefs*, Chas. W. Eaton—*Canal at Bruges*, Herbert Faulkner—*Venice*, Birge Harrison—*Harvard Bridge*, Sara S. Hayden—*The*

Girl in Green—*Protrait of A. H. Edgren*—*Protrait of Ellen Smith*, Sara W. More—*Protrait of Charles H. Gere*, Elizabeth Nourse—*Little Peasant of Brittany*, Leonard Ochtman—*Evening on the Mianus Bridge*, Cora Parker—*A Brittany Kitchen*—*The Prune Orchard*, Edgar Payne—*The Hills of El-Toro*, Edward H. Potthast—*The Waning Day*, Robert Reid—*The Golden Screen*, George Gardner Symons—*Vibrant Notes of Autumn*.

GIFTS TO THE ART GALLERY

The regents of the University of Nebraska are heartily in favor of developing an adequate gallery of fine arts. Such a gallery open daily to the public would be a constant influence for good. It would powerfully stimulate all of the industries and crafts and refine our life generally. The regents will support this interest as vigorously as the resources of the University will permit. Since these resources are limited, the regents invite the co-operation and support of public spirited associations and individuals. In addition to original works of art, copies of the masterpieces and collections of art objects are needed in order to give the students and the public some knowledge of the whole range of art activity.

EXHIBITIONS

The Annual Exhibition of the Nebraska Art Association is held in the Fine Arts Gallery of the University. This is the only exhibition involving an admission fee, and the proceeds are devoted to the purchase of original paintings to be added to the collection of the association. Students are admitted at one-half the usual rates. At all other times special exhibits are on display and are accessible to the public free of charge. In addition to the collections of the University, loan exhibits are procured whenever they are available.

SPECIAL LECTURES

Special lectures by experts are provided from time to time and are free to students and the public.

TRIP TO AMERICAN ART GALLERIES

If a sufficient number of persons apply before the first of June, a trip to the principal art galleries of America will be made under competent

leadership. A fee of twenty dollars will be charged to defray the expenses of guides and lecturers.

SPECIAL SUMMER CLASS

If twenty students apply before the first of June a special class in Drawing and Painting will be organized in Colorado during the Summer Session. The fee for this class will be fifteen dollars.

UNIVERSITY CHORUS

The University Chorus, open to all students, gives several cantatas and oratorios each year and participates in the May Musical Festival. The Cadet Band, a military band, gives several home concerts annually and furnishes music on occasions of general University interest.

CLUBS

The Glee Club gives concerts in Lincoln and throughout Nebraska and adjoining states.

The Kosmet Klub is an organization of upper classmen, to promote the interests of musical productions in the University. Its purpose is to produce each year an original musical comedy, written and played by students. Membership is by election of the club.

The Dramatic Club is an organization of students interested in amateur theatricals. It gives several plays each year. Membership is by election.

RECITALS AND DRAMATIC PERFORMANCES

Dramatic performances and recitals by advanced students of elocution and dramatic art, will be scheduled in the state, provided they do not interfere with the regular work. Applications may be sent to the Director.

SPECIAL COLLEGE COURSES

Special four-year college courses in Painting and Drawing, and in Dramatic Art lead to the A. B. degree and are of a broadly cultural character. By making the courses required throughout, it is possible to correlate the work carefully. They differ from the general courses in the College of Arts and Sciences in that they substitute work in Drawing and Painting, and Dramatic Art for certain groups regularly required in the College. When conflicts in courses occur substitutions may be made by the Director.

DRAMATICS

FRESHMAN

First Semester		Second Semester	
	Hours		Hours
Rhetoric I.....	2	Rhetoric II.....	2
Elocution I.....	2	Elocution II.....	2
Phonetics I.....	1	Phonetics II.....	1
Physiology.....	3	Physiology.....	3
¹ Greek History.....	3	Roman History.....	3
² French or German.....	5	French or German.....	5
Phy. Cult. (women) or Mil. Drill		Phys. Cult. (women) or Mil. Drill	
(men).....	1	(men).....	1
	17		17

SOPHOMORE

Elocution.....	2	Elocution.....	2
Hist. of Eng. Lit.....	3	Hist. of Eng. Lit.....	3
Eng. Lit. (Shakespeare).....	3	Eng. Lit. (Shakespeare).....	3
¹ French or German.....	5	French or German.....	5
Greek Drama.....	2	Greek Drama.....	2
Phys. Cult. (women) or Mil. Drill		Phys. Cult. (women) or Mil. Drill	
(men).....	1	(men).....	1
	16		16

JUNIOR

³ Dramatics.....	1	Dramatics.....	1
History of Culture.....	3	History of Culture.....	3
Psychology.....	3	Psychology.....	3
English Lit. (Browning).....	2	English Lit. (Browning).....	2
French or German.....	5	French or German.....	5
⁴ Chorus.....	1	Chorus.....	1
Phys. Culture.....	1	Phys. Culture.....	1
	16		16

¹ Students who present entrance credits in Greek and Roman History will substitute European History 1 and 2.

² Greek or Latin may be substituted for French or German.

³ Intensive study of a part, presented in a play or public recital.

⁴ Students who must be excused from chorus will substitute a 3-hour course for a 2-hour course with approval.

SENIOR

First Semester		Second Semester	
Hours		Hours	
Dramatics.....	1	Dramatics.....	1
Aesthetics.....	3	Aesthetics.....	3
French Drama.....	3	German Drama.....	3
Comp. Literature.....	2	Comp. Literature.....	2
Hist. of Theatre.....	2	Hist. of Theatre.....	2
¹ Electives.....	3	Electives.....	3
Phys. Culture.....	1	Phys. Culture.....	1
² Chorus.....	1	Chorus.....	1
<hr/>		<hr/>	
16		16	

PAINTING AND DRAWING

FRESHMEN

Rhetoric I.....	2	Rhetoric II.....	2
Freehand Drawing.....	3	Freehand Drawing.....	3
Perspective.....	3	Perspective.....	3
³ German or French.....	5	Hist. Early Christian Art 4.....	2
History of Classical Art 3.....	2	German or French.....	5
Phys. Cult. (women) or Mil. Drill		Phys. Cult. (women) or Mil. Drill	
(men).....	1	(men).....	1
<hr/>		<hr/>	
16		16	

SOPHOMORE

Drawing and Painting.....	2	Drawing and Painting.....	2
Physiology.....	3	Physiology.....	3
Architecture 9.....	2	Architecture 10.....	2
Hist. of Eng. Literature.....	3	Hist. of Eng. Literature.....	3
³ French or German.....	5	French or German.....	5
Phys. Cult. (women) or Mil. Drill		Phys. Cult. (women) or Mil. Drill	
(men).....	1	(men).....	1
<hr/>		<hr/>	
16		16	

¹ Students intending to teach will elect work in Education.

² Students who must be excused from chorus will substitute a 3-hour course for a 2-hour course with approval.

³ Greek or Latin may be substituted for French or German.

JUNIOR

Drawing and Painting.....	2	Drawing and Painting.....	2
Psychology.....	3	Psychology.....	3
History of Culture or European		History of Culture or European	
History I.....	3	History II.....	3
Italian.....	3	Italian.....	3
¹ German or French.....	5	German or French.....	5
<hr/>		<hr/>	
16		16	

SENIOR

First Semester		Second Semester	
	Hours		Hours
Drawing and Painting.....	2	Drawing and Painting.....	2
Clay M., Wood C. or Decorative		Clay M., Wood C. or Decorative	
Art.....	1	Art.....	1
Aesthetics.....	3	Aesthetics.....	3
Interpretation Italian Art 5.....	3	Interpretation Italian Art 6.....	3
Italian.....	2	Italian.....	2
¹ French or German.....	3	French or German.....	3
Eng. Lit. (Browning).....	2	Eng. Lit. (Browning).....	2
<hr/>		<hr/>	
16		16	

COURSES IN ARCHITECTURE

Courses in architecture are offered by the College of Engineering and the School of Fine Arts. They are described in the bulletin of the College of Engineering.

¹ Greek or Latin may be substituted for French or German.

COURSES OF STUDY

AESTHETICS

Professor Alexander

41. **Philosophy of Criticism**—Origin and development of the different types of artistic expression; the formation and significance of art traditions; analysis of such conceptions as naturalism, symbolism, realism, idealism, classicism, romanticism, etc. Two hours attendance. Two hours credit. First semester. Alexander

42. **Philosophy of Criticism**—41 continued. History of aesthetic criticism. Aristotle's *Poetics*, Longinus' *On the Sublime*, and other treatises, are read in English. (Course 41 not necessarily prerequisite.) Two hours attendance. Two hours credit. Second semester. Alexander

43. **History of Culture**—Historical phases of the conception of culture. The rise of culture in the Mediterranean basin, with special study of the Graeco-Roman ideal of enlightened living. Plato's Republic. Three hours attendance. Three hours credit. First semester. Alexander

44. **History of Culture**—The culture of Mediaeval times and of the Italian Renaissance, the 18th century enlightenment and humanitarianism; humanism today. Three hours attendance. Three hours credit. Second semester. Alexander

DRAWING AND PAINTING

Associate Professor Hayden, Instructor Mundy, Instructor Brock

1. **Elementary Drawing**—Drawing from geometric solids, still-life and antique fragments in outline and in light and shade. Study of values in pencil and charcoal. Application of the principles of perspective in free hand drawing. One to three hours credit. One hour credit for each three-hour period of attendance. First semester. Hayden

2. **Elementary Drawing**—Course 1 continued. Second semester.

3. **Advanced Drawing and Color Work**—Heads and figures in charcoal from the antique for the study of construction and as a preparation for drawing from life. Still-life in oil and water color. Pen and ink with reference to the processes of reproduction. Occasional sketching from costumed model. One to three hours credit. One hour credit for each three-hour period of attendance. First semester. Hayden

4. **Advanced Drawing and Color Work**—Course 3 continued. Second semester.

5. **Life**—Drawing and painting from costumed model in charcoal, oil and water color. Study of the construction and action of the human figure. Exercises in pictorial composition. One to three hours credit. One hour credit for each three-hour period of attendance. First semester.

Hayden

6. **Life**—Course 5 continued. Second semester.

7. **Theory and Practice of Design**—Study of the fundamental principles of design with practical application to china painting, stenciling, decorative leather, metal work, etc. Students work out original designs in space and line composition followed by the study of color harmony. Decorative lettering is included in this course. Three hours attendance. One hour credit. First semester.

Mundy

8. **Theory and Practice of Design**—Course 7 continued. Second semester.

NOTE: Classes in the practical application of design in basketry, simple sheet metal work and decorative leather work will be formed on demand.

9. **Public School Drawing**—A course intended for public school teachers with special reference to the work required in the city schools. It is designed to give increased proficiency in drawing and to establish a foundation for class room criticism. Assigned exercises are criticised before the class from the standpoint of design, composition and draughtsmanship. Three hours attendance. One hour credit.

Mundy

10. **Public School Drawing**—Course 9 continued. Second semester.

NOTE: An evening class in freehand drawing to meet the needs of mechanics, engineers, designers and other employed during the day will be formed on demand. Hours 7:30 p. m. to 9 p. m., one night per week. Terms \$3 per semester.

Mundy

11. **China Painting**—The application of original and conventional design on china. Firing of china. First semester. Three hours attendance. One hour credit if taken with course 7.

Brock

12. **China Painting**—Course 11 continued. Second semester. Three hours attendance. One hour credit if taken with course 8.

Brock

15. **Art and Design**—A special course for students of Home Economics. Two hours lecture. Three hours studio. Three hours credit.

Mundy

16. **Art and Design**—Course 15 continued. Second semester.

ELOCUTION AND DRAMATIC ART

Assistant Professor Howell, Professor Pound, Assistant Professor Scott

1a. Reading and Speaking—The aim is to secure naturalness and sincerity in reading and speaking, to preserve the individuality of the student, and to obtain freedom from self-consciousness. Special attention to voice culture, correct articulation and definite gesture. Analysis and vocal interpretation of selections from orators, essayists, dramatists and poets. Class recitals. All students who register for this course are required to register for 1b. Three hours attendance. Two hours credit. First semester.

Howell

1b. Phonetics—A general introduction to the subject. Lectures and exercises. The course directs attention to the accurate pronunciation of English. It may also serve as a basis for the study of the historical phonology of the various languages. One hour attendance. One hour credit. First semester.

Pound

2a. Reading and Speaking—1a continued. Prerequisite: 1a and 1b. Second semester.

Howell

2b. Phonetics—1b continued. Prerequisite: 1a and 1b. Second semester.

Pound

3. Dramatic Interpretation—Advanced study of voice culture, impersonation, pantomime and gesture. Interpretation of various kinds of dramatic literature—prose and poetry. Special attention to the oration and critical study of *Hamlet*, *As You Like It*, *Macbeth*, *Romeo and Juliet*, *Much Ado About Nothing*, *Twelfth Night*, *The Rivals*, and some modern play. Analysis of plot, character and incidents. Dramatic presentation of principal scenes before the class. Prerequisite: Courses 1 and 2. Three hours attendance. Two hours credit. First semester.

Howell

4. Dramatic Interpretation—3 continued. Second semester.

Courses in Dramatics are offered by the departments of Elocution and Dramatic Art, Germanic Languages and Romance Languages. Not more than four one-hour courses will be credited to any student.

5. Dramatics—An intensive study of the drama and the oral interpretation of masterpieces of literature with the aim of acquiring a repertoire. Each member of the class is required to interpret various kinds of selections for a program. Each member is also required to take part in character interpretations of scenes from dramas presented before the class and is given the opportunity of appearing in a public recital or a public play.

Prerequisite: Courses 1, 2, 3, and 4 or the consent of the instructor. One hour attendance. One hour credit. First semester.

Howell, Heppner

6. **Dramatics**—5 continued. Second semester.

7. **Dramatics**—5 and 6 continued. Work planned with reference to the history of the drama and the theatre. Reports by members of the class on assigned topics. The writing of dramatic criticisms and the coaching of plays. Individual public recitals by members of the graduating class. One hour attendance. One hour credit. First semester. Howell

8. **Dramatics**—7 continued. Second semester.

9. **Teachers' Course**—Special course for teachers in city schools and for students in the Teachers College. Intended to strengthen the teaching of reading by the formation of an intelligent reading habit. Analysis of selections from the best literature and the application of principles of interpretation to class-room and platform work. Special attention to articulation, pronunciation, and voice-development. The presentation in pantomime of characters and scenes from life and literature. Individual criticism. Discussion of programs and of supplementary literature for class-room use. Two hours attendance. Two hours credit. First semester. Howell

10. **Teachers' Course**—9 continued. Second semester.

11. **History of the Theatre**—A study of the evolution of dramatic presentation, tracing the art from its most rudimentary forms to the theatre of modern times. Special attention given to theatrical aspects and their influences upon dramatic tendencies. Lectures, papers and readings. Two hours attendance. Two hours credit. First semester. Scott

12. **History of the Theatre**—Course 11 continued. Second semester.

ENGLISH LITERATURE

Professor Pound, Assistant Professor Scott

3. **Shakespeare**—First studies in the literary art of this author. *Macbeth*, studied in daily written exercises and library readings, with independent investigation of special topics on the art and literary history of the play. Three hours attendance. Three hours credit. First semester.

Scott

4. **Shakespeare**—3 continued. Written studies in *Hamlet* and *Othello*. Three hours attendance. Three hours credit. Second semester. Scott

5. **The History of English Literature**—A survey of the development of English Literature; the rise of literary forms, periods of literary history, and various formative and other influences. Special class study of Chaucer, Spenser, Milton, and others. Three hours attendance. Three hours credit. First semester. Pound

6. **The History of English Literature**—5 continued. Second semester.

EUROPEAN HISTORY

Professor Fling (*Head of Department*), Assistant Professor Pfeiffer,
Instructor Needham

1. **European History from the Germanic Migrations to 1871**—Three hours attendance. Three hours credit. First semester.

Fling, Pfeiffer, Needham

2. **European History**—1 continued. Second semester.

FRENCH

Professor Conklin (*Head of Department*), Assistant Professor Reese

1. **French**—Introductory course. Five hours attendance. Five hours credit. First semester. Conklin, Reese

2. **French**—1 continued. Second semester.

For more advanced work see Romance Languages, general catalog.

GERMAN

For instructors, see general catalog.

1. **Beginners' German**—A careful and thorough study of the fundamentals of the language; pronunciation, the inflectional systems, sentence structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings. Five hours. First semester.

Grummann, Schrag, Heppner, Chamberlain, Baumgartner, Alexis

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Bacon's *Im Vaterland*, Müller's *Neue Märchen*, Blüthgen's *Das Peterle von Nürnberg*. Seidel's *Leberecht Hühnchen*, Stokl's *Alle Fünf*, etc. Conversation and composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

For more advanced work see Germanic Languages, general catalog.

GREEK DRAMA

Professor Lees (*Head of Department*)

1. **Greek Drama**—A study of the Greek drama in English translation. Two hours attendance. Two hours credit. First semester. Lees
2. **Greek Drama**—1 continued. Two hours attendance. Two hours credit. Second semester. Lees

HISTORY AND CRITICISM OF THE FINE ARTS

Professor Dann (*Head of Department*), Associate Professor Hayden

The following courses have to do with the principles of aesthetic criticism, and the evolution of art in its relation to nature, to science, and to social influences. The course consists of lectures and discussions in class, collateral reading, and preparation of papers on assigned topics.

1. **Interpretation of Art**—This course is introductory to the general subject, and comprises a compendious survey of the chief periods in the history of art, together with practice in interpreting pictures, sculpture, architecture, and decorative designs. It is intended to help students to a sound criticism and appreciation of works of art. Examples are taken from various periods and schools. Open to all except freshmen. Two hours attendance. Two hours credit. First semester. Dann
2. **Interpretation of Art**—Course 1 continued. Second semester.
3. **History of Greek and Roman Art**—A study of classical architecture, sculpture, and the minor arts. Two hours attendance. Two hours credit. First semester. Dann
4. **Christian Art**—From the decline of Rome to the thirteenth century. Moorish architecture and decoration are also considered in this course. Two hours attendance. Two hours credit. Second semester. Dann
5. **History of Italian Art**—From Cimabue to Perugino. Open to Juniors and Seniors. Courses 1 and 2 are prerequisite. Three hours attendance. Three hours credit. First semester. Dann
6. **History of Italian Art**—From Raphael to Tintoretto. Prerequisite: Course 5. Three hours attendance. Three hours credit. Second semester. Dann
7. **Contemporary Painting and Sculpture**—A study of the aims, methods and technique of contemporary artists. Explanation of mediums and technical terms. Discussion of important art movement that have in-

fluenced the work of modern artists. Comparison of contemporary national schools. Open to Juniors and Seniors. Two hours attendance. Two hours credit. First semester. Hayden

8. **Dutch and Flemish Painters**—Two hours attendance. Two hours credit. Not given in 1913-1914. Dann

9. **Cathedral Architecture**—A study of the construction and decoration of Romanesque and Gothic churches in Italy, France, Germany, and England. Open to all except Freshmen. Two hours attendance. Two hours credit. First semester. Dann

10. **Modern Architecture**—The architecture of the Renaissance is taken up and discussed, including the points wherein it resembles or differs from classical architecture. The study and criticism of modern buildings of architectural pretensions also receives some attention. Open to all except Freshmen. Two hours attendance. Two hours credit. Second semester. Dann

MILITARY SCIENCE AND TACTICS

Major Switzer, 4th Infantry, U. S. Army, Commandant (*Head of Department*)

REQUIRED COURSES

1. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit.

2. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 1.

3. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 2.

4. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 3.

ELECTIVE COURSES

5. **Elective**—For men who have had one semester of drill. Theoretical. Two hours attendance for one-half semester. One hour credit.

6. **Elective**—Follows course 5. Theoretical. Two hours attendance for one-half semester. One hour credit.

(See also, catalog College Arts and Sciences.)

MUSIC

Mrs. Raymond, Director

3. **Chorus Conducting**—Singing and interpretation, including correct phrasing, diction, breathing, and the principles of voice production. The chorus gives a series of vesper services assisted by a string quartet. One of the grand operas is studied each year and "*The Messiah*" and other works will be given with orchestral accompaniment. Three hours attendance. One hour credit. First semester. Raymond

4. **Chorus Conducting**—3 continued. Second semester.

PERSPECTIVE

Associate Professor Rasmusen

1. Geometrical construction, principles of mechanical drawing, projection, and isometric drawing. One hour attendance. Eight hours drawing. Three hours credit. Rasmusen

2. Elements of descriptive geometry, theory of perspective, shades and shadows. Prerequisite: Perspective 1. One hour attendance. Eight hours drawing. Three hours credit. Rasmusen

PHYSICAL EDUCATION

Assistant Professor Gittings, Instructor Beghtol

WOMEN—FIRST YEAR

21. **Light Gymnastics**—Swedish gymnastics. Correction of improper walking and standing positions. Elementary dancing and gymnastic games. Lectures in personal hygiene. Four half-hours' attendance. One hour credit. First semester. Gittings, Beghtol

22. **Light Gymnastics**—21 continued. Elementary work on balance beams, spring boards, stall bars, booms, ropes, etc. Four half-hours' attendance. One hour credit. Second semester. Gittings, Beghtol

PHYSIOLOGY

Professor Lyman (*Head of Department*), Mr. Thompson

1. **General Animal Physiology**—A consideration of the facts and theories underlying the functions of muscle and nerve, of secretion, diges-

tion, absorption blood and lymph, circulation, respiration, animal heat, metabolism, the central nervous system, special senses, and reproduction. The laboratory work in general physiology for the students of the School of Fine Arts is modified in order to give them special instruction in the physiology of the muscles of expression, and the special relation which the skeleton and the musculature bear to surface form. Three hours attendance. Four hours laboratory. Three hours credit. First semester.

Lyman, Thompson

2. **General Animal Physiology**—1 continued. Three hours attendance. Four hours laboratory. Three hours credit. Second semester.

Lyman, Thompson

RHETORIC

For instructors, see general catalog

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters.

Frye, Buck, Gass, McPhee, Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters.

The School of Commerce

OFFICERS OF ADMINISTRATION AND INSTRUCTION

SAMUEL AVERY, Ph. D., LL. D., Chancellor of the University.

JAMES STUART DALES, M. Ph., Secretary of the University.

¹ EDWARD MARKWOOD RUTLEDGE, A. B., Registrar and University Publisher.

VANCIL KELSO GREER, LL. B., Registrar and University Publisher.

ELLERY WILLIAMS DAVIS, Ph. D., Dean of the College of Arts and Sciences and Professor of Mathematics. (*Head of Department of Mathematics*).

JAMES EDWARD LE ROSSIGNOL, Ph. D., LL. D., Director of the School of Commerce and Professor of Political Economy and Commerce. (*Head of Department of Political Economy and Commerce*).

LEON EMMONS AYLSWORTH, A. M., Associate Professor of Political Science.

NELS AUGUST BENGTON, A. M., Associate Professor of Geography and Conservation.

¹ EVERETT NEWTON BOWMAN, First Lieutenant, Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics*).

HOWARD WALTER CALDWELL, A. M., Professor of American History. (*Head of Department of American History*).

GEORGE EVERT CONDRA, Ph. D., Professor of Geography and Conservation. (*Head of Department of Geography and Conservation*).

CLARA CONKLIN, A. M., Professor of Romance Languages and Literatures. (*Head of Department of Romance Languages and Literatures*).

CARL CHRISTIAN ENGBERG, Ph. D., Professor of Applied Mathematics and Executive Dean.

MINNIE THROOP ENGLAND, Ph. D., Instructor in Political Economy.

FRED MORROW FLING, Ph. D., Professor of European History. (*Head of Department of European History*).

MILLER MOORE FOGG, A. M., Professor of Rhetoric.

¹ Resigned.

- CHARLES FORDYCE, Ph. D., Professor of Educational Theory and Practice and Dean of the Teachers College. (*Head of Department of Educational Theory and Practice*).
- LAURENCE FOSSLER, A. M., Professor of Germanic Languages and Literatures. (*Head of Department of Germanic Languages and Literatures*).
- PROSSER HALL FRYE, A. B., Professor of Rhetoric. (*Head of Department of Rhetoric*).
- GEORGE ELLIOTT HOWARD, Ph. D., Professor of Political Science and Sociology. (*Head of Department of Political Science and Sociology*).
- GUERNSEY JONES, Ph. D., Professor of English History. (*Head of Department of English History*).
- GEORGE WASHINGTON ANDREW LUCKEY, Ph. D., Professor of Education. (*Head of Department of Education*).
- OSCAR ROSS MARTIN, A. M., Assistant Professor of Accounting and Business Administration.
- EDWIN MAXEY, Ph. M., D. C. L., Professor of Public Law and Diplomacy.
- CLARK EDMUND PERSINGER, A. M., Professor of American History.
- ALBERT ALISON REED, A. M., Inspector of Accredited Schools and Professor of Secondary Education. (*Head of Department of Secondary Education*).
- CHARLES AUGUSTUS ROBBINS, Ph. M., LL. B., Professor of Law.
- ADDISON ERWIN SHELDON, A. M., Lecturer in Political Science and Director of the Legislature Reference Bureau.
- LUCIUS ADELNO SHERMAN, Ph. D., LL. D., Professor of English Language and Literature and Dean of the Graduate College. (*Head of Department of English Language and Literature*).
- GEORGE ASBURY STEPHENS, Ph. D., Assistant Professor of Political Economy.
- JOHN SINGLETON SWITZER, Major, 4th Infantry, U. S. A., Professor of Military Science and Tactics and Commandant of Cadets. (*Head of Department of Military Science and Tactics*).
- GEORGE OLIEN VIRTUE, Ph. D., Professor of Political Economy and Commerce.
- HARRY KIRKE WOLFE, Ph. D., Professor of Philosophy. (*Head of Department of Philosophy*).

ORGANIZATION AND PURPOSE

The School of Commerce was created by action of the Board of Regents in May, 1913, for the purpose of providing for students preparing for business or allied lines of work, vocational training suited to their needs. Business is now, in its higher forms, as much a learned profession as theology, law, medicine, engineering, agriculture and other difficult and complicated arts, and demands of those who would rise from the ranks a thorough, scientific and practical training. Practical training is obtained chiefly in actual business experience, but theoretical and scientific education, with the broad view and large grasp so essential to the highest success, can best be obtained in the University.

Many occupations are open to those who have had such preparation. There is a large and increasing demand for highly efficient men and women in accounting, banking, insurance, journalism, transportation, manufacturing, domestic and foreign commerce; for experts in the Public Service, especially in the Department of Commerce and Labor and in the Consular Service; and for teachers of political economy and commerce in high schools and colleges. In fact, it is hard to mention any field of business activity in which the demands for efficient service do not far exceed the supply. It is a question of the supply of officers for the industrial army, and those who aspire to places of trust must first go through a long and arduous course of training.

REQUIREMENTS FOR ADMISSION

The following table of entrance requirements is effective for all undergraduate colleges of the University:

Required Subjects—		Points
English.....		4
History (European) <i>a</i>		2
Language (Foreign) <i>b</i>		6
Mathematics <i>c</i>		4
Science (Laboratory) <i>d</i>		2
Elective Subjects—		
Other subjects taught in an approved manner in an accredited secondary school.....		12
Total.....		30

- a* History: It is recommended that Greek and Roman History be offered in meeting the European History requirement.
- b* Language: For entrance to the College of Arts and Sciences at least two years of Latin are recommended. Two years (four points) are required of students entering the six-year combined Academic-Medical course unless excused by the committee on accredited schools.
- c* Mathematics: For entrance to College of Agriculture four points are required. Advanced algebra and solid geometry may be offered in place of the third year in foreign language. For entrance to the College of Engineering six points in Mathematics are required. To meet this requirement a third year in Mathematics may be substituted for the third year in foreign language.
- d* Science: It is recommended that Physics be offered in meeting the science requirement.

Adult Special Students. Persons at least twenty-one years of age, who do not fulfill the regular entrance requirements, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for entrance.

Fees. The fees are the same as those for all students in the College of Arts and Sciences, and are merely nominal for all but non-resident students, who pay a tuition fee of \$15 each semester.

REQUIREMENTS FOR GRADUATION

University Credits (125 hours). For the degree of Bachelor of Arts, 125 University credit hours are required. Students who have completed the four years' course prescribed by the School of Commerce may receive a special certificate.

REQUIREMENTS FOR TEACHERS' CERTIFICATES

The University Teachers' Certificate. Students in the School of Commerce may register in the Teachers College in their junior and senior years and secure a Teachers College Diploma, a First Grade State Certificate, by meeting the requirements of this college, presenting courses in the School of Commerce for a Minor (12 to 16 hours) or a Major (24 to 32 hours) as teachers of Commerce.

City State Certificate. Those graduates of the University qualifying for either the University Teachers' Certificate or the first grade County Certificate will receive the City State Certificate entitling them to teach in the public schools of Nebraska in accordance with section 5, subdivision 9a, School Laws 1911.

First Grade County Certificate. The county superintendent may, at his discretion, grant a first grade county certificate to graduates of colleges, universities and normal schools, under rules prescribed by the State Superintendent of public instruction. A year of successful experience or the presentation of credit for twelve hours of education has been prescribed as a requirement for the issuance of a certificate under this provision. Students should consult the Dean of the Teachers College early in their course, in order that their work may be so planned as to make them as valuable as possible in the school room, and that they may have advice as to means of securing a certificate if the emergency of teaching before graduation should arise.

ORDER OF COURSES¹

For the present only one program of courses has been prepared, and it is expected that all students registering in the School of Commerce will conform strictly to the prescribed order, unless they have obtained special dispensation from the Director because of conflicts in courses or for other

¹ A total of 125 hours are required for graduation from this course.

sufficient reasons. It should be noted, however, that a considerable amount of election is permitted after the freshman year, for the benefit of students wishing to specialize in certain lines of work. For example, students desiring to specialize in accountancy may take a number of advanced courses in that subject. Students preparing for banking, insurance, consular service and for trade will find other elective courses especially suited to their needs.

First Year

1st Semester		2d Semester	
Hours		Hours	
Rhetoric.....	2	Rhetoric.....	2
Military Science (Men) or Phys- ical Training (Women).....	1	Military Science (Men)or Phys- ical Training (Women).....	1
Foreign Language.....	5	Foreign Language.....	5
Mathematics or Science ¹	3	Mathematics or Science.....	3
Accounting.....	3	Accounting.....	3
Commercial Geography or Indus- trial Geography.....	2	American Industries or Agricul- tural Industries.....	2
<hr/> 16		<hr/> 16	

Second Year

English Literature or Rhetoric..	3	English Literature or Rhetoric...	3
Military Science (Men) or Phys- ical Training (Women).....	1	Military Science (Men) or Phys- ical Training (Women).....	1
Mathematics or Science.....	3	Mathematics or Science.....	3
History.....	3	History.....	3
Political Economy 1.....	3	Money and Banking.....	3
Business Organization.....	2	Business Organization.....	2
One of the following:		One of the following:	
Advanced Accounting.....	2	Advanced Accounting.....	2
Economic History.....	2	Economic History.....	2
Economics of Colonization....	3	Practical Banking.....	2
Foreign Language.....	3	Economic Development of the Far East.....	3
		Foreign Language.....	3
<hr/> 17-18		<hr/> 17-18	

¹Students of the School of Commerce are strongly advised to take Mathematics in the Freshman year.

Third Year

1st Semester		2d Semester	
	Hours		Hours
Political Science.....	3	Political Science.....	3
Business Law.....	3	Business Law.....	3
Corporation Finance.....	2	Trusts.....	2
Two of the following:		Two of the following:	
Auditing.....	2	Cost Accounting.....	2
Economic Crises.....	3	Stock and Produce Exchange..	3
Insurance (Fire).....	3	Insurance (Life).....	3
Mathematics of Investment....	3	Mathematics of Insurance....	3
Psychology.....	3	Psychology.....	3
Sociology.....	3	Sociology.....	3
History.....	3	History.....	3
	<hr/>		<hr/>
	13-14		13-14

Fourth Year

Work and Wages.....	3	Methods of Industrial Peace.....	3
Public Finance.....	3	Railway Transportation.....	3
Three of the following:		Three of the following:	
History of Economic Thought..	2	Recent Economic Theory.....	2
Mathematics 31 (Statistics)....	3	Mathematics 32 (Statistics)....	3
Economics of Agriculture.....	2	Railway Transportation.....	3
Socialism.....	3	Statistics and Prices.....	3
Economic Seminar.....	1-3	Economic Seminar.....	1-3
Philosophy.....	3	State and Local Taxation.....	3
International Law.....	2	Philosophy.....	3
	<hr/>	International Law.....	2
	12-15		<hr/>
			12-15

COURSES FOR HIGH SCHOOL TEACHERS

Students preparing to teach Political Economy and Commerce in High Schools may take a Minor (12-16 hours) or a Major (24-32 hours) in the School of Commerce. The courses recommended for a Minor are:

Principles of Political Economy.....	3 hours
Geography of Commerce	
or	
Industrial Geography.....	2 hours
Principles of Accounting.....	6 hours
Economic History.....	4 hours
	<hr/>
	15 hours

Students taking a Major are advised to take in addition to the above:

Money and Banking.....	3 hours
History of Economic Thought.....	2 hours
Recent Economic Theory.....	2 hours
Business Law.....	6 hours
Business Organization.....	4 hours
	<hr/>
	17 hours

To students wishing to take additional courses, the following are recommended as being especially useful to teachers:

Corporation Finance.....	2 hours
Trusts.....	2 hours
Public Finance.....	3 hours
Railway Transportation.....	3 hours
Work and Wages.....	3 hours

As teachers of Commerce usually require a knowledge of Stenography and Typewriting, these subjects should be taken in the Teachers College Training School, or elsewhere.

COURSES FOR PROFESSIONAL ECONOMISTS

Students wishing to become teachers of Political Economy and Commerce in colleges and universities, or preparing for the Public Service, should consult with the Director and other members of the Faculty as to the best preparation for such work. In general, it may be said that professional economists require as a basis for their more special studies a considerable knowledge of English, Mathematics, European and American History, Foreign Languages, Physical Science, Political Science, Sociology, Philoso-

phy and Law. In order to obtain this broad foundation students should take not more than a Major (24-32 hours) in Political Economy during their college course and should postpone some of their economic studies until their graduate years. A student cannot thoroughly prepare himself for this work without a full college course of four years and a graduate course of three years leading to the Doctor's degree.

ACCOUNTANCY

The courses in Accountancy have been designed to meet the needs of three classes of students: those who wish to become business executives, those who wish to become professional accountants, and those who wish to become teachers of commercial subjects. There is an increasing demand for the services of professional accountants, and the University is especially fitted to give the broad training essential to those entering this field. Students who desire to follow accounting as a profession should take all three years of the subject and the courses in Business Organization and Business Law.

CONSULAR SERVICE AND FOREIGN TRADE

Students preparing for work of this character should give special attention to Geography, International Law and modern languages, especially German, French and Spanish. There are many openings for young men in Mexico and South America where a knowledge of Spanish is essential, while Portuguese is useful in Brazil and elsewhere.

INSURANCE

The School of Commerce provides courses in Insurance running through the year, and a course in the mathematical principles of Insurance given in the Department of Mathematics. Inasmuch as insurance men require a very broad training, they should avoid a too narrow specialization.

SPECIAL LECTURES

In connection with many of the courses, business men of Lincoln, Omaha and other parts of the State have been invited to give special lectures on the more practical side of the work, such as practical banking, insurance, advertising, salesmanship, special problems in private and public accounting. In this way the more theoretical work of the classrooms is brought into close relation with the more practical aspects of business life.

COURSES OF INSTRUCTION

AMERICAN HISTORY

3. **Early National Period, 1789-1829**—Open to those who have had courses 1 and 2, and to juniors and seniors. Formation of political parties; interpretation of the constitution; struggle for neutral rights and War of 1812; reorganization of political parties; the Monroe Doctrine. Three hours attendance. Three hours credit. First semester. Caldwell

4. **Jacksonian Democracy; Slavery and the Civil War, 1829-1865**—Open to those who have taken course 3, and to seniors. The bank struggle; nullification; Texas, Oregon and the Compromise of 1850; the Kansas-Nebraska Bill; Dred Scott Decision; Election of 1860 and the Civil War. Three hours attendance. Three hours credit. Second semester and Summer Session of 1914. Caldwell

5. **Reconstruction and Industrial Development, 1865-1898**—Open to those who have had courses 1 and 2, and to juniors and seniors. Incorporation of results of war into Constitution and institutions of nation; rise of social and industrial problems; party development and political questions. Three hours attendance. Three hours credit. First semester. Caldwell

17. **Latin America**—Open to advanced students, on consultation. Brief study of Latin-American history and relations; more detailed study of present-day Latin-American institutions, conditions, and opportunities. Study for 1913-1914 will center upon Peru and the west coast. Open to advanced students. Two hours attendance. Two hours credit. First semester. Persinger

18. **The Latin-American States**—A special course for those expecting to locate or work in some one of the Latin-American countries. Individual work, under direction, upon the particular country in which student expects to locate. One or two hours credit. Second semester. Persinger

ENGLISH HISTORY

1. **English History (until 1603) leading up to American Colonization**—English feudalism; church and state; formation of the English nation; development of Parliament; rise of cities and the agrarian revolution; the new monarchy; the renaissance, geographical discoveries, and the abolition of papal jurisdiction; the Reformation. Character of English

society at the moment of American settlement. Three hours attendance. Three hours credit. First semester. Jones

2. Modern English History (after 1603) as related to American History—Puritan revolution; revolution of 1688 and rise of the cabinet; struggle for colonial supremacy; the House of Hanover and the American revolution; influence of the French Revolution; social reforms; democracy and empire; successive emigrations to America. Three hours attendance. Three hours credit. Second semester. Jones

ENGLISH LANGUAGE AND LITERATURE

1. English Literature—Introductory. Literary elements and principles, with illustrative study of modern poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Given in Summer Session, 1914. Stuff

2. English Literature—Introductory. Literary elements and principles, short story, dramatic monologue, and selected poetry and prose. First and second semesters. Three hours attendance. Three hours credit. Stuff

11. English Literature—Literary art and diction. Studies in the development of modern prose. Prerequisite: Courses 1 and 2. Two hours attendance. Two hours credit. First semester. Sherman

12. English Literature—11 continued. Daily written exercises of appreciation and criticism, in selected specimens of best literature. Two hours attendance. Two hours credit. Second semester. Sherman

EUROPEAN HISTORY

1. European History from the Germanic Migrations to 1871—Required for the University Teachers' Certificate in History. Three hours attendance. Three hours credit. First semester.

Fling, Pfeiffer, Needham

2. European History—1 continued. Second semester.

3. English History to 1558—Required for the University Teachers' Certificate in History. Two or three hours attendance. Two or three hours credit. First semester. Pfeiffer

4. English History after 1558—3 continued. Second semester.

19. **Europe in the Nineteenth Century**—Open to students who have had one year's work in the department. Two hours attendance. Two hours credit. First semester. Fling

20. **Europe in the Nineteenth Century**—19 continued. Second semester.

GEOGRAPHY AND CONSERVATION

1. **The Land**—A lecture and laboratory course in practical physical geography. Some of the topics treated are: Materials of the land; common minerals and rocks; structures; relief features; origin and detailed description of the land forms produced by wind, ground water, rivers and glaciers; classification and interpretation of maps. Lectures fully illustrated by lantern slides, maps, models and specimens. Two hours attendance. Two hours laboratory and two hours library preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

2. **North America**—A summary study of the political divisions, relief, drainage, coast lines and climate. A full treatment of each of the seventeen topographic regions, including their structure, physiographic history, topography and drainage, resources and industries, and geographic control of the settlement and development. The Great Plains Region is emphasized. The course is suited to all students who wish a knowledge of the geography of our country. Lectures illustrated. Two hours attendance. Four hours library, laboratory and preparation. Two hours credit. Second semester. Condra, Bengtson

5. **Industrial Geography**—This course is a close study of the mineral fuels, forest, and water resources of the United States and their conservation or development. Detailed studies are made of the regions, processes, and products of the following industries: Coke, coal, petroleum, iron and steel, lumber, turpentine, pulpwood and rubber. Lecturers are fully illustrated by slides, charts, and specimens. Two hours attendance. Four hours library and preparation. Two hours credit. Open to all. First semester. Condra, Bengtson

6. **Agricultural Industries**—Practical studies are made of the following industries: Cotton, tobacco, corn, wheat, rice, beet and cane sugars, citrous fruits, apples, cattle and sheep. The processes involved in converting raw materials into the finished articles of commerce are emphasized. The forms, processes, and commercial relation are illustrated by means of specimens and well selected sets of lantern slides. This is a course in prac-

tical agricultural technology. Two hours attendance. Four hours library, museum, and preparation. Two hours credit. Second semester.

Condra, Bengston

GERMANIC LANGUAGES AND LITERATURES

1. **Beginners' German**—A careful and thorough study of the fundamentals of the language: pronunciation, the inflectional systems, sentence-structure, the vocabulary of every-day life, etc. Practice in understanding and speaking German based upon easy readings. Five hours. First and second semesters. Grummann, Schrag, Heppner, Chamberlain, Baumgartner, Alexis, Fellows.

2. **Beginners' German**—Grammar studies continued. Application to simple modern narrative and descriptive prose, e. g., Bacon's *Im Vaterland*, Müller's *Neue Märchen*, Bluthgen's *Das Peterle von Nürnberg*, Allen's *Herein*, Seidel's *Leberecht Hühnchen*, Stokl's *Alle Fünf*, etc. Conservation and composition exercises based upon texts read. Hours and instructors as in course 1. Second semester.

2a. **Beginners' German**—Essentially equal to the foregoing course, although, being designed to accommodate high school students who enter with but two semesters' German, the formal or systematic side of grammar (review) is stressed particularly. Conservation and composition exercises as in course 2. Five hours. First semester.

Chamberlain, Heppner, Fellows

3. **Second Year German**—Modern prose, such as Niese's *Aus dänischer Zeit*, Schrakamp's *Ernstes und Heiteres*, Rosegger's *Waldheimat*, Freitag's *Die Journalisten*, Gerstäcker's *Germelshausen*, Manley's *Drei Wochen in Deutschland*. Systematic elementary composition and conversation based upon Allen's *First German Composition* and upon texts read. Five hours. First semester. Given in Summer Session, 1914.

Schrag, Baumgartner, Chamberlain

4. **Second Year German**—Translation and, as far as possible, discussion in German or more advanced text, e. g., Fulda's *Das Verlorne Paradies*, Arnold's *Aprilwetter*, Meyer-Förster's *Karl Heinrich*, Mogk's *Deutsche Sitten und Gebräuche*, Sundermann's *Frau Sorge*. Composition: Pope's *Writing and Speaking German*. Students who have had four semesters German in the high school should likewise register in this course. Five hours. First and second semesters.

Grummann, Heppner, Alexis, Chamberlain

7. Third and Fourth Year German—Conversation course. The design in this and the following course is to furnish such opportunity for gaining a fairly ready and correct command of spoken German as can be done in the class room. Special attention is paid to colloquial, every-day idioms and expressions. Fossler's *Material for German Conversation*, Thiergen's *Am deutschen Herd*, Holzel's and Hirt's *Wandbilder*, and similar helps furnish the material. Three hours. First semester. Given in Summer Session, 1914. Fossler, Schrag, Heppner

8. Third and Fourth Year German—Continuation of foregoing course. Free composition, close study of grammatical peculiarities. Submitting of poems, proverbs, etc. Fossler, Schrag, Heppner

LAW

Business Law I—Contracts, including mistake, fraud, duress, and capacity of parties; agency; insurance; sales and mortgages of personal property; bailments. Three hours attendance. Three hours credit. First semester. Robbins

Business Law II—A continuation of course I. Negotiable instruments; suretyship and guaranty; partnership; private corporations; bankruptcy. Three hours attendance. Three hours credit. Second semester. Robbins

International Law I—Credited in the College of Law. Three hours attendance. Three hours credit. First semester. Maxey

International Law II—Advanced course. Specific problems of international law. Two hours attendance. Credited in the College of Law to students who do not count International Law I. Two hours credit. Second semester. Maxey

Seminary on Consular Service—Admission upon consent of the instructor. Two hours attendance. Two hours credit. Second semester. Given in 1914-1915 and alternate years. Maxey

MATHEMATICS

1a. College Algebra—Prerequisite: Five points high school credit. Three hours attendance. Three hours credit. First and second semesters.

2a. Trigonometry—Three hours attendance. Three hours credit. Second semester.

2. Analytical Geometry and Calculus—Prerequisite: Courses 1 or

2a. Five hours attendance. Five hours credit. First and second semesters.

3. **Analytical Geometry and Calculus**—2 continued. Five hours attendance. Five hours credit. First and second semesters.

31. **Statistics**—Statistical problems. Interpretation of statistics. This course should be taken in connection with Political Economy 28. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. First semester. Engberg

32. **Insurance**—Mathematical principles of insurance, especially of life insurance. This course should be taken in connection with Political Economy 6. Prerequisite: Courses 1 and 2. Three hours attendance. Three hours credit. Second semester. Engberg

MILITARY SCIENCE AND TACTICS

1. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit.

2. **First Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 1.

3. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 2.

4. **Second Year Military Drill**—Practical and theoretical. Attendance four hours one-half semester, two hours one-half semester. One hour credit. Follows 3.

PHILOSOPHY

1. **Elementary Psychology**—A general introductory course, including the elements of descriptive, physiological, and experimental psychology. Designed for students who desire more than one semester in psychology. A good foundation is laid in two semesters for further studies in psychology, philosophy, or education. Botany 1 or Zoology 1 should precede or accompany this course. Not open to first year students. Required for the Teachers' Certificate. Three hours attendance. Two hours laboratory. Three hours credit. First semester. Wolfe

2. **Elementary Psychology**—1 continued. Second semester.

3. **Elementary Psychology**—A briefer course in general psychology for students wishing the minimum requirements in this field. Not open to first year students. Three hours attendance. Two hours laboratory. Three hours credit. Second semester. Given in Summer Session, 1914.

Wolfe

21. **Introductory Ethics**—A study of the fundamental principles of morals. Three hours attendance. Three hours credit. First semester.

Alexander

30. **Introduction to Philosophy**—Develops the philosophical conception of Reality as Mind, and applies it in some detail to the interpretation of the system of sciences. Deals with such ruling ideas as those of matter, force, life, heredity, evolution, purpose, mind, reason, God. Designed to meet the needs of the scientific and general student, and to serve also as a preparation for further work in philosophy. Lectures. Three hours attendance. Three hours credit. First and second semesters. Hinman

POLITICAL ECONOMY AND COMMERCE

1. **Principles of Political Economy**—Elementary course. Preliminary view of the subject. Intended as a preparation for the more special courses offered in the Department. The industrial organization of society; development of natural resources; occupations and the division of labor; production, exchange and distribution of wealth; utility and value; wages, interest, rent and profits; money and credit; rise and fall of prices and the cost of living; transportation; domestic and foreign commerce; protection and free trade; trusts and trade unions; state and municipal ownership; socialism. (This course is prerequisite to all of the following except courses 3, 4, 5, 5a, 7, 8, 9, 10, 11, 12 and 14.) Three hours attendance. Three hours credit. First and second semesters. Four sections in the first semester and two in the second.

2. **Money and Banking**—Origin of money; early forms of currency; metallic money; credit money; monetary history of the United States; bimetalism; the gold standard; relation of money and credit to the general level of prices; nature and use of credit; domestic and foreign exchange; history and theory of banking; banking systems of Great Britain, Germany, France and Canada; national, state and private banks; proposals for banking reform. Three hours attendance. Three hours credit. First and second semesters.

LeRossignol, England

2a. Practical Banking—A course in banking practice, treating of the actual operations of the various departments of a bank. Special attention is given to classification of loans, collateral, investments, domestic and foreign exchange, bank accounts and the relation of banks to their customers and correspondents. Course 2 prerequisite. Two hours attendance. Two hours credit. First and second semesters. Martin, England

3. Geography of Commerce—A general survey of the fundamental conditions and human agencies affecting industrial and commercial development, followed by a careful study of the natural resources, industries, products and commerce of each of the principal countries of the world. Emphasis is laid upon the localization of industry and the consequent commercial relations between countries. (For a discussion of the physical basis of commerce attention is called to courses 5 and 6 of the Department of Geography.) Two hours attendance. Two hours credit. First semester. Stephens

4. American Industries—A study of typical agricultural, extractive, and manufacturing industries of the United States. After tracing the principal raw materials from the producer to the factory, the various processes involved in manufacturing finished products are outlined. Then the finished products are traced to the consumer, great emphasis being laid upon marketing and shipping problems. Some of the industries are covered by lectures by the instructor and some by co-operative topical work on the part of the student. Two hours attendance. Two hours credit. Second semester. Stephens

5. Principles of Accounting—An introductory course designed to furnish such a knowledge of accounting as will be of value to the business manager and will also serve as a foundation for the work of the professional accountant. Emphasis is placed upon the essential features of bookkeeping, such as the principles of debit and credit, the various kinds of accounts and their relation to each other, the character and purpose of financial statements, and the like. A study is made of accounting principles and methods as illustrated in the accounts of mercantile, industrial and financial concerns. Two hours lecture. Three hours laboratory. Three hours credit. First semester. Martin

5a. Principles of Accounting—A continuation of course 5. Some practice will also be given in the designing of accounting systems and in the preparation of commercial and industrial statistics for the purpose of accurate business analysis. Prerequisite: Course 5. Two hours lecture. Four hours laboratory. Three hours credit. Second semester. Martin

5b. Advanced Accounting—A course in advanced accounting theory supplemented by practice in the solution of problems selected from C. P. A. examinations in various states. Some of the special topics considered are: the valuation of assets; capital vs. revenue expenditures; good-will; depreciation; reserves and reserve funds; sinking funds; realization and liquidation accounts; insolvency accounts; executorship accounts; dissolution of partnership; consolidations, etc. Prerequisite: Courses 5 and 5a. Two hours attendance. Two hours credit. First semester. Martin

5c. Advanced Accounting—This is a continuation of course 5b. In addition to the topics mentioned, consideration will be given to the accounts of municipalities and other governmental bodies, and of public institutions. Two hours attendance. Two hours credit. Second semester. Martin

5d. Auditing—The duties and responsibilities of an auditor; the methods of conducting various kinds of audits and their respective values; the preparation of the auditor's report, its content and value; the auditor's certificate. Prerequisite: Political Economy course 5b. Two hours attendance. Two hours credit. First semester. Martin

5e. Cost Accounting—The nature and purpose of cost accounts and their relation to the commercial and financial accounts of a concern. A careful study will be made of each of the elements entering into the cost of the finished product: the purchase, handling and distribution of raw materials; the distinction between productive and unproductive labor; time-keeping and the apportionment of labor; the items entering into overhead expense, or "burden," and the various methods of apportioning these to the finished product. The relation of cost accounts to efficient management will receive special attention throughout the course. Prerequisite: Political Economy 5 and 5a. Two hours attendance. Two hours credit. Second semester. Martin

6. Fire Insurance—The rise, progress, and present status of fire insurance are briefly outlined and the functions of such insurance noted. Special attention is given to the making of rates and to hazards, the basis of rate making. The provisions of the New York standard policy are studied with considerable minuteness. The organizations of the company and agencies, and the relations existing between company, agent, and insured are considered. Throughout the course the regulations of the Nebraska Insurance Code and those of other states are emphasized. Three hours attendance. Three hours credit. First semester. Stephens

6a. Life Insurance—The historical development of life insurance is reviewed and the economic importance of such insurance emphasized. The essential features of insurance administration, governmental control and supervision of insurance companies, the various methods of computing premiums, the organization and management of agencies, taxation of insurance companies, and other important questions are discussed. Special attention is given to a detailed comparative study of the chief provisions in various sample policy contracts. (Students desiring to study the mathematical basis of insurance are advised to take Mathematics 32). Three hours attendance. Three hours credit. Second semester. Stephens

7. History of Commerce—The development of commerce during mediaeval and modern times; basis of commercial prosperity; relation of the state to trade and industry; growth of commerce during mediaeval and modern times; basis of commercial exchanges; trading companies and corporations; development of shipping and the art of navigation; commercial policy of leading nations and an examination of the theories upon which they have rested. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915* Virtue]

8. Economic History of England—A study of the stages through which English industry has passed: The agricultural organization under feudalism and its breakdown; important changes in agriculture in the 18th and 19th centuries; the evolution and organization of manufactures; the guild and domestic systems; the rise of the factory system and its social and industrial results; the industrial revolution; commercial history; the mercantile system and its decline; recent movement for protection; England's present industrial position. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Virtue]

9. Economic History of the United States—This course deals with the main lines of our industrial development from the colonial period to the middle of the 19th century. The chief topics discussed are colonial industries and commerce; the economics of the Revolution; the settlement of the West; the growth of fundamental industries; commerce and shipping; commercial policy, including the early history of the tariff; financial history, including monetary and banking arrangements; history of manufactures; labor systems and labor organizations. Two hours attendance. Two hours credit. First semester. Virtue

10. Economic History of the United States—A continuation of course 9, showing the economic development of the United States from the middle of the 19th century to the present time. The general lines indicated

in course 9 are followed and new subjects are treated as they arise, such as westward expansion, the land policy of the government, the development of transportation, the economics of slavery, agrarian and labor movements, corporations and trusts, the decline of our merchant marine, the growth of domestic and foreign commerce. Two hours attendance. Two hours credit. Second semester. Virtue

[11. **The Economics of Colonization**—The economic objects and importance of present-day colonization. Nature of state expenditures whether for military or developmental purposes. Does state expenditure for colonies pay? Does trade follow the flag? Do colonies provide an outlet for capital? Will the white man settle the tropics? Especial attention given to American colonization and to African colonial problems. Three hours attendance. Three hours credit. First semester. *Not given in 1914-1915.*
England]

12. **Economic Development of the Far East**—Monetary reforms in the Orient; extension of banking, investment of Western capital; projection of railways; opening of mines; development of commerce; share of Europe and America in Oriental trade; economic value of Central Asia; effect of industrial development of Japan and China upon the political control of Asia. Three hours attendance. Three hours credit. Second semester. England

13. **Economics of Agriculture**—A study of farm organization and management; size of farm units; forms of tenure; problems of tenancy; methods of marketing farm products; co-operation in selling and buying in dairy industry, in supplying credit and insurance; social conditions of rural life. Text-books, reports and discussions. Two hours attendance. Two hours credit. First semester. Virtue

FOR GRADUATES AND UNDERGRADUATES

15. **History of Economic Thought**—Economic theory in ancient and mediaeval times; beginning of economic science; Mercantilists, Cameralists and Physiocrats; Adam Smith, Malthus, Ricardo, J. S. Mill and other classical economists; Karl Marx and the economics of Socialism; Roscher and the Historical School; Jevons and the Austrian School; relation of industrial conditions to economic theory. Students registering in this course are expected to continue in course 16. Two hours attendance. Two hours credit. First semester. LeRossignol

16. **Recent Economic Theory**—A continuation of course 15. A special study of recent English and American economists. The subject is changed from year to year. Last year the works of Marshall and Fisher were used as the basis of the course; this year a special study will be made of the works of Clark and Davenport, and each member of the class will select some one other writer for special study. Two hours attendance. Two hours credit. Second semester. LeRossignol

[17. **Financial History of the United States**—The course covers the field of the financial operations of the Federal government since 1789, but gives special prominence to the period since 1860. It deals with sources of Federal revenue and objects of expenditure; the movement of the public debt and its management; the evolution of our monetary and banking systems and current movements for their reform. Two hours attendance. Two hours credit. First semester. *Not given in 1914-1915.* Virtue]

[18. **Tariff History of the United States**—While the tariff policy of the United States and its relation to industry and trade is the chief subject of study, the course includes also a survey of the tariff systems of other countries; a study of the merits of protection and free trade; our reciprocity agreements and their results; the consular service and its effects on trade development; the history of American shipping, the causes of its decline, the proposed methods of restoring it; recent progress and change in the character of our foreign trade. Two hours attendance. Two hours credit. Second semester. *Not given in 1914-1915.* Virtue]

19. **History of Economic Crises**—A comparative study of economic, industrial and financial crises from the seventeenth century to the present day. Especial attention is given to the recent world crises. The work covers the local and minor crises preliminary to the main crisis and the transmission of the crisis from country to country; the fluctuation in investment, bank items, and prices in the principal countries; the action and reaction between industrial activity and financial business. Supplementary readings on the theory of crises. Three hours attendance. Three hours credit. First semester. England

21. **Stock and Produce Exchanges**—Boards of Trade: A description of the nature of the business carried on in the Paris Bourse, the Stock Exchange of London, the New York Stock Exchange, the New York Produce Exchange, the New York Coffee Exchange, the Cotton exchanges of New Orleans, Liverpool, and New York, and the Chicago Board of Trade. Options and futures, puts, calls and straddles. Corners in stocks, wheat,

and cotton. Biographical sketches of prominent operators. Three hours attendance. Three hours credit. First semester. England

[22. **Municipal Industries**—A study of the principles and methods involved in the construction and operation of municipal public utilities; growth and importance of these industries in the United States and in foreign countries; direct versus contract method of construction and repairs; municipal ownership versus regulated private ownership of the leading public service utilities. Three hours attendance. Three hours credit. Second semester. *Not given in 1914-1915.* Stephns]

24. **Railway Transportation**—This course includes a brief survey of the evolution of transportation; its relation to economic and social life; problems of railway competition and how they have been met; financial methods of railway companies; railway accounts; principles of rate making; state and federal legislation; public control through state and federal commissions; government ownership and its results. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. Second semester. Virtue

25. **Corporation Finance and Investments**—This course includes an introductory study of the historical development of corporations; the advantages and disadvantages of large scale production; the various forms of combination, such as pools, trusts and holding companies, followed by a detailed study of the methods of promoting and capitalizing larger combinations, and various other important problems involved in their financing. Special emphasis is given to the discussion of the merits and demerits of the stocks and bonds of industrial, public service and railway corporations as investments, and the stock market methods underlying their purchase and sale. Two hours attendance. Two hours credit. First semester.

Stephens

26. **Trust Problems**—The rise and development of trust forms of business organization; the conditions essential to the operation and growth of trusts; the elements of large-scale production and monopoly entering into the formation of trusts; dangers arising from their unrestricted operation; remedies, including governmental interference; Federal and state anti-trust laws and decisions. Two hours attendance. Two hours credit. Second semester.

Stephens

27. **Business Organization**—The essential features of the individual proprietorship, the partnership and the corporate form of organization; the location of the enterprise, its equipment, and the internal organization for the purpose of efficient operation; the employment of labor the adjust-

ment of the laborer to his work; modern wage systems; scientific management. The various types of organization—military, functional, staff and departmental—are considered with respect to their underlying principles and their application to different concerns. Two hours attendance. Two hours credit. First semester. Martin

28. Business Organization—This course deals with the mechanism of modern commerce and industry; the organization of extractive industries; factory organization; the various forms of wholesale retail trade organizations; department, mail order, and co-operative stores; stock and produce exchanges, and the like. The work of industrial and commercial associations will receive attention. Two hours attendance. Two hours credit. Second semester. Martin

31. Public Finance—This course embraces a study of the objects and growth of public expenditures of the leading nations; sources of revenue from government industries and from taxation; the chief features of various tax systems, especially of the United States and England; the principles upon which different forms of taxes rest and their industrial effects; systems of financial administration, especially the methods of managing the budget; public debts, their forms and methods of management. Text, discussions, written and oral reports. Three hours attendance. Three hours credit. First semester. Virtue

32. State and Local Taxation—A seminar course with special reference to conditions, past and present, in Nebraska. A comparative study is made of the tax laws of various states, methods of administration and current movements for tax reform. Open to those who have had course 31, or its equivalent. Three hours credit. Second semester. Virtue

34. Statistics and Prices—A study of the theory, preparation, interpretation, and application of economic statistics with especial reference to prices; determination of the rise and fall of general prices; comparison of the movement of prices of raw materials and finished products; prices in relation to wages and interest; price cycles; stock prices and profits. (Students desiring further work in statistics are advised to take Mathematics 31). Three hours attendance. Three hours credit. Second semester. England

[35. Work and Wages—History of the labor movements in Europe and America; wages in the 19th century; theory of wages; methods of remuneration; the minimum wage; hours and conditions of labor; migration; conflicts of capital and labor; conciliation and arbitration; employers' liability; insurance and pensions; workingmen in politics; relation of

Socialism to the labor movement. (Students desiring further work in labor problems are advised to take Political Economy 36, 37 and 39 and Political Science 19 and 20). Three hours attendance. Three hours credit. First semester. *Given in 1915-1916 and alternate years.* LeRossignol]

36. Methods of Industrial Peace—A special study of the labor problem as a conflict between employers and laborers; harmony and divergence of interests; organizations of employers and laborers; their aims and methods, interests of the general public; gains and losses through strikes; trade agreements; conciliation; voluntary and compulsory arbitration, co-operation, profit sharing; political activities of workingmen and benefits obtained through legislation; progress of the working class in the United States and other countries. Three hours attendance. Three hours credit. Second semester. LeRossignol

37. Socialism—History of socialistic thought before the French Revolution; Utopias of Plato, Moore, Campanella; relation of the French Revolution to modern Socialism; Utopian theories of Owen, Saint-Simon, Fourier; communistic experiments in Europe and America; Proudhon, Blanc, and other French socialists; Marx, Engels, LasSalle and other German socialists; growth of Socialism throughout the world; Socialism in the United States; Syndicalism; recent socialistic theory and criticism. Three hours attendance. Three hours credit. First semester. LeRossignol

45. Economic Seminar—Open to a limited number of graduates and other advanced students. Each student will make an intensive study of a given subject, under the direction of a member of the Faculty, and will report the results of his investigations before the class. Members of the Faculty also will give lectures and take part in the discussions. One to two hours attendance. One to three hours credit. First semester. LeRossignol, Virtue, Stephens, Martin, England

46. Economic Seminar—A continuation of course 45. Students registering for course 45 will be expected to continue in course 46, and will receive credit according to the work which they do. One to three hours credit. Second semester.

POLITICAL SCIENCE AND SOCIOLOGY

1. American National Government—Introductory study of salient features in historical development, political structure, and actual workings of national, state, and local governments as parts of one whole. National

government, first semester. Open to all students except freshmen. Three hours attendance. Three hours credit. First semester. Aylsworth

2. **American State Government**—Complement of course 1. May be taken before course 1 by consent of instructor. State and local government in general is studied. Nebraska is used as an example of both federal and state relations, and state and local government. Open to all students except freshmen. Three hours attendance. Three hours credit. Second semester. Aylsworth

11. **Municipal Government**—Organization of City Government in the United States and Europe. Growth of cities, the "home rule" movement, municipal suffrage, initiative and referendum, the council and executive, the municipal administrative system, the commission plan of city government, and the "short ballot." Prerequisite: Courses 1 and 2 or their equivalent. Two hours attendance. Two hours credit. First semester. Aylsworth

12. **Municipal Government**—Functions of city administration in the United States and Europe. Origin and expansion of municipal functions, tendency toward municipal socialism, activities and problems connected with public health and safety, charities, education, recreation, public works, transportation, the "city beautiful," municipal ownership of public utilities, etc. Occasional stereopticon views. Prerequisite: Courses 1 and 2 or equivalent. Two hours attendance. Two hours credit. Second semester. Aylsworth

15. **General Sociology**—Principles of social science. For third and fourth year students and graduates. Three hours attendance. Three hours credit. First semester. Howard

16. **Problems in Social Psychology and Ethics**—Chief psychic factors in social evolution. Laws of suggestion, mob-mind, and imitation "craze," "fad," and sect; fashion, conventionality, custom, and tradition; leadership, genius, hero-worship, role of great men; social conflict, compromise, discussion, free speech, free press, public opinion; social sins, standards of private and social ethics. Theories of Le Bon, Tarde, Sidis, Ward, and Ross. For third year and more advanced students. Three hours attendance. Three hours credit. Second semester. Howard

RHETORIC

1. **Rhetoric and English Composition**—Instruction and practice in elementary composition. Themes, conferences. Two hours attendance. Two hours credit. First and second semesters. Given in Summer Session, 1914.
Frye, Buck, Gass, McPhee, Davis

2. **Rhetoric and English Composition**—1 continued. First and second semesters. Given in Summer Session, 1914.

Courses 1 and 2 are required of all freshmen in the College of Arts and Sciences.

3. **English Composition**—1, 2 continued. Practice in general expression. Intended to give the student some control over his own thought and some facility in its presentation. Two hours attendance. Two hours credit. First semester.
Frye, McPhee

4. **English Composition**—3 continued. Second semester.

23. **Newspaper Writing**—News-story and editorial writing. Two hours attendance. Two hours credit. First semester. Gass

24. **Magazine Writing**—23 continued. Magazine exposition. Second semester.

13. **Argumentation**—1, 2 continued. Principles of argumentative composition. Text-book, lectures, frequent writing, conferences; gathering of material; analysis; evidence; structure—brief-drawing; ethics of discussion. Briefs and arguments on questions of general or college interest or from the student's work in other departments. In the second semester a thesis, for which the training in the first semester directly prepares, may be substituted. Two hours attendance. Three hours credit. First semester.
Fogg and Assistants

14. **Argumentation**—13 continued. Second semester.

15. **Debate**—Introductory course. Principles of argumentation practically applied to oral discussion of economic, ethical, historical, political, and sociological questions. Weekly debates, preceded by briefs, in which each member takes part three times as principal speaker. The debates are criticised before the entire class. Open to students who have completed course 13 with credit and to others by special consent. Membership limited to twenty. Two consecutive hours attendance. Three hours credit. First semester.
Fogg, Caldwell, Fling, Howard, Le Rossignol

16. **Debate**—15 continued. Open to students who have completed 13 or 15 and to others by consent of the instructor. Second semester.

17. **Debate**—Advanced course. Further training in investigation and oral discussion. Debates. Each member takes part three times as principal speaker. Conducted as course 15. Open to students who have completed 13 and 15 or 16 and to others by consent of the instructor. Membership limited to sixteen. Admission by consent of instructor. Two consecutive hours attendance. Three hours credit. First semester.

Fogg, Caldwell, Fling, Howard, Le Rossignol

18. **Debate**—17 continued. Second semester.

ROMANCE LANGUAGES AND LITERATURES

French

1. **Beginning French**—Introductory course. Five hours attendance. Five hours credit. First semester. Given in Summer Session, 1914.

Conklin, Reese, Stewart

2. **French**—1 continued. Second semester. Given in Summer Session, 1914.

3. **French**—Second-year course. Modern reading. Three hours attendance. Three hours credit. First semester. Given in Summer Session, 1914.

Conklin, Reese

4. **French**—3 continued. Second semester.

5. **French Writing and Speaking**—Recommended with 3. Two hours attendance. Two hours credit. First semester.

Conklin

6. **French Writing and Speaking**—5 continued. Recommended with 4. Second semester.

Spanish

31. **Beginning Spanish**—Introductory course. Five hours attendance. Five hours credit. First semester.

Conklin, Reese

32. **Spanish**—31 continued. Second semester.

33. **Spanish**—Second year course. Three hours attendance. Three hours credit. First semester.

Conklin, Reese

34. **Spanish**—33 continued. Second semester.

35. **Spanish**—Third year. Two hours attendance. Two hours credit. First semester.

Reese

36. **Spanish**—35 continued. Second semester.

Roster of Students and Degrees

and Index to Complete Catalog

THE UNIVERSITY OF NEBRASKA

DEGREES CONFERRED IN 1912-1913¹

Mid-Winter Commencement—1913

THE COLLEGE OF ARTS AND SCIENCES

BACHELORS OF ARTS—14

Ingvard Marius Andersen
Miriam Anne Clark
Vera Genevieve Cleaver
Roland Meredith Frost
Edward Paul Hodapp
Nellie Marian Jones
Earl William Lantz

Asa Margrave Lehman
Olive Beulah Mann
Dee Matthias Scriven
Leslie Andrew Welch
Edith Blanche Williams
Myra Withers
Carl Hemenway Worley

BACHELOR OF SCIENCE—1

Arthur Herbert Hiltner

THE COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING—2

John Thomas Dirks

Oliver Milton Swanson

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING—1

Walter Minor Weber

THE COLLEGE OF AGRICULTURE

BACHELOR OF SCIENCE IN FORESTRY—1

Robert V. Evans

BACHELOR OF SCIENCE IN TECHNICAL AGRICULTURE—3

Robert Ellsworth Getty

Herbert William Markward

John Cicero Watson, Jr.

THE COLLEGE OF LAW

BACHELORS OF LAWS—2

Paul Rolfe Halligan

George Earle Howard

THE GRADUATE COLLEGE

MASTER OF ARTS—6

Emma Ottilie Bach, Graduate University of Bern-Germanics
Charles Clinton Berkey, A. B. 1910—Political Science and Sociology
Mary Elizabeth Elliott, A. B. 1909—American History
Lewis Morgan Puffer, Ph. B. 1898, Hamlin University—Chemistry
Ray James Scarborough, A. B. 1909—Geography

MASTER OF FORESTRY—1

Clarence Ferdinand Korstian, B. Sc. 1911—Forestry, Botany

¹ Since this catalog is printed before the June and July graduation exercises held at the close of the University year, 1913-1914 the names here published are of those who were granted degrees between September 1, 1912 and September 1, 1913, which dates mark a regular University year.

These time limits also obtain with respect to certificates granted.

June Commencement—1913

THE COLLEGE OF ARTS AND SCIENCES

BACHELORS OF ARTS—171

Roy Folger Allan
J. Ned Allison
George Jack Armstrong
Aimee Fay Arnold
John Roy Beach
Leo Allen Bechter
Albert Leon Beekly
Estella May Bender
Hugh John Birmingham
Majorie Hart Blackman
Anneta Heathman Boltin
Mary Barbara Bookmeyer
Helen Kathryn Bouse
Cora Maude Brown
Helen Marcia Bruner
Harry James Burtis
Mary Helen Cameron
Katherine Cannell
Helen Mitchell Carns
Earle Russell Carse
Alma Agnes Carsten
Cornelia Constance Cavanagh
Mary Frances Chatburn
Millie Cherny
Harry Buffington Coffee
Ethel Beulah Coffman
Fred James Colbert
Ernest Harry Cornelius
Verna Grace Coryell
Catherine Clara Cruickshank
Lora Beecher Cunningham
Louise Frances Curtis
Niels Henriksen Debel
Arlie Walter Dewey
Beulah Augusta Dexter
Breta Evelyn Diehl
Helen Dinsmore
Evelyn Edith Dobbs
Elizabeth Hazel Drake
Bertha Marie Drath
Frank Merle Dryden
Roy Wesley Eaton
Elsie Dorothy Ebmeyer

Robert Irving Elliott
Florence Farman
Annie Patience Farrell
Grace Ethel Fawthrop
Hazel Charlotte Fishwood
Robin Wynne Fitch
Jerome Richard Forbes
William Ernest Frank
Cora Louisa Friedline
Hubert Melvin A. Frost
Edward Mann Gallagher
Blanche Galloway
Irma Vida Gibson
Isham Reavis Gist
Edith Alta Goddard
Anabel Good
Elsie Adlia Gray
Ralph Dennis Green
Will Walter Guidinger
Helen Magdalene Hahn
Laura Grace Hanson
Dewey Jehu Harman
Lucy Christina Harte
Clinton Daniel Heine
Ida Maurine Hetzler
Ray Morton Higginson
Mary Priscilla Holcomb
Grace M. Holman
Mary Belle Hooton
Florence Maxine Hostetler
Edward Huwaldt
Ruth Hyder
Lulu May Janes
Percy Maxwell Janes
Ethel Dorothy Johnson
Lucy Stout Keifer
Olive Hawley Keller
Guy Cabbell Kiddoo
Pauline Bune Kohn
Della Ladd
Rhea Lamoreaux
May Inez Leetham
Marjorie Lichtenwallner

Edna Ruth Lindley
 Evangeline Long
 Ruth Marie McDonald
 Louise Elizabeth McNerney
 Harry Vernon Marsh
 Alice Amanda Mattison
 Agnes Sophia Meline
 James Alfred Melville
 Louise Meredith
 Mamie Meredith
 Carl Augustus Meyer
 Donald Walters Miller
 Effie Irene Miller
 Kathryn Marie Mockett
 Igera Montgomery
 Bertha Alice Morgan
 Harold Rowe Mulligan
 George Alvin Munn
 Everette Raymond Newman
 Ruth Medora Nickell
 Florence Amelia Nombalais
 Dora Gine Nyrop
 Ralph Waldo Orr
 Edith Olive Parrish
 Stella Viola Parrott
 Charles Benjamin Peery
 Lewis Snow Peirce
 Mildred Olive Piper
 Ervine Emery Pont
 Mable Maude Pope
 Mildred Rebecca Pope
 Harold Aubrey Prince
 Ruth Randolph
 Bertha Reed
 William Reimer
 Clifford Louis Rein
 Letta Chappell Reinsch
 Mary Ethel Robbins
 Peter Kofod Romer
 Alice Evelyn Root
 Harold Alvin Rosenbaum
 Agnes Cornelia Russell
 Beth Symphrose Ryan

Walter Byron Sadilek
 Helen Martha Safford
 Helen Agatha Sawyer
 Florence Schwake
 Mary Salome Schwertley
 Clare Ethelwyn Scriver
 George McHenry Seemann
 Edith Rose Shank
 Edna Pearl Shields
 Lillian Edith Shrum
 Otto August Sinkie
 Mildred Louisa Sisty
 Ethel Sloan
 Marie Josephine Smart
 Ralph Emerson Smith
 Christian Abraham Sorensen
 Willa Waneta Spier
 Evert Lee Stancliff
 Cecilia Caroline Stenger
 Orin G. Stepanek
 Donald Warner Stewart
 Delia Verne Stocking
 Erma Sullivan
 John Theodore Swan
 Ralph Chapman Sweeley
 Marien Frances Swezey
 James Franklin Thompson
 Theos Jefferson Thompson
 Grace Knowlton Truell
 Clinton Brooks Underwood
 Arvilla Ada Vail
 Robert Buchanan Vance
 Anna Margaret Veith
 Pearl Alice Wagey
 Helen Margaret Wallace
 Henry Wessel
 Abbie Western
 Carrell Henry Whitnah
 Herman Harry Wiebe
 Blanche Grace Williams
 Amelia Tabitha Wood
 Margaret Wooster

BACHELORS OF SCIENCE—15

Chester Adam Beaver
 August Ernest Henry Blomenkamp
 George Howard Brother
 Oscar Romaine Cone

Isham Reavis Gist
 Edith Alta Goddard
 Anabel Good
 Edward Mann Gallagher

Blanche Galloway
 Irma Vida Gibson
 Sylvia Lee Smith
 Nellie Marguerite Ward

Rex Bishop Wilsey
 Ernest Dana Wilson
 James Mac Woodward

COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE—15

Alexander Henry Beckhoff
 Bert Cunningham Danly
 Arthur Gray George
 Ernest Howard Graves
 Edward Robert Gross
 Ernest Herman Herminghaus
 Joseph Benjamin Kuska
 Otto Hugo Liebers

John Ernest Ludden
 Roy Edgar Marshall
 Lorn Cleveland Robertson
 Walter James Rupert
 Earl John Taylor
 George Overton Unruh
 Harvey Elmer Vasey

BACHELORS OF SCIENCE IN FORESTRY—5

William Ridgely Chapline, Jr.
 Frank Albert Hayes
 Enoch Wesley Nelson

Theodore B. Nichols
 Robert Delafield Rands

BACHELORS IN SCIENCE IN HOME ECONOMICS—11

Edna Anna Arends
 Lucile Bell
 Hallie Hinkley Clark
 Mary Elizabeth Curry
 Helen Mar Drake
 Matie Ella Hall

Rena Althea Howard
 Jessie Pearle Pope
 Aurelia Marion Scott
 Susanna Thompson
 Maud Mathes Wilson

COLLEGE OF ENGINEERING

BACHELORS OF SCIENCE IN AGRICULTURAL ENGINEERING—1

Elmer Charles Gee

BACHELORS OF SCIENCE IN CIVIL ENGINEERING—11

Park Lowell Edgar
 Albert Freitag
 Edward Joseph Kraus
 Edward Clarke McGee
 Lewis Rees Owen
 Harlan Allen Pratt

Hugh Ellison Smith
 Swan Arthur Swanson
 James Alton Waters
 Frederick Alfred Wirt
 Harold Bearce Wright

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING—14

Louis Pliny Arms
 Samuel Crowe Carrier
 Louis Trumble Gramlich
 Clifford Blaine Harris
 James Kelley Hewett

Frederick Carl Holtz
 Harvey Smith Kinney
 Klindt Kolls
 Glenn Edgerton Montgomery
 Charles Kenneth Paine

Alvin Ralph Rich
John Carsten Schultz

John Roy Spacht
George Balch Wilson

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING—7

Myrle Charles Evans
Lester Clyde Lichty
Bert Elsworth Morley
Francis Bernard O'Neill

Gilbert Cameron Polk
Harry Edward Schank
Frederick Augustus Somers

COLLEGE OF LAW

BACHELORS OF LAWS—55

Harry Ray Ankeny
Robert McDowell Armstrong
Conrad Leslie Baskins
Joseph Patrick Brenn
Charles Coe Buchanan
Jean Benson Cain
Paul Nicklin Cole
Ray Ayotte Crancer
Earl Raymond Curry
Otho Henry Doyle
Fletcher Lawrence Farley
Owen Ashcraft Frank
Robert Leroy Gilmore
Harry Clinton Goggins
John Wilmot Graham
Guss Hagenstein, Jr.
Ralph Archie Haggart
Ernest Herman Hahne
Gifford Nathan Hale
Benjamin Harrison
John Garrett Hartwell
Robert Richardson Hastings
Evans Zacharius Hornberger
Merle Harrison Howard
Edward Leslie Hyde
Clarke Willard Johnson
Orville Leroy Jones
Ralph Mallory Kryger

Homer Lewis Kyle
John Arthur Lawler
Arthur Jay Ludden
Frederic Charles McConnell
Leroy McCormick
Earl Cleveland McKee
Enor K. Matson
John Frank Mead
Otto William Miller
Otto Warren Percy
Clayton Samuel Radcliffe
William Leslie Randall
Anan Richard Raymond
James Albert Rodman
Ernest Simon Schiefelbein
Melvin Roscoe Scott
Clement Miner Sherwood
Bartlett Paine Slade
Fred Lawrence Spear
Morton Steinhart
James Leonard Tewell
Rowland Paul Thomas
Thomas Grier Thompson
Will Edward Schenck Thompson
Otto Fasolt Walter
William Wallace Wenstrand
Ralph Parks Wilson

COLLEGE OF MEDICINE

DOCTORS OF MEDICINE—9

Milton Frederick Arnholt
Elliott Cunningham Cobb
Frances Edith Haines
Walter Frank Hammitt
Andrew Harvey

Joseph Wilson Laughlin
Ward Hughes Powell
Olga Frances Stastny
Alfred Edward Westervelt

GRADUATES IN PHARMACY—12

Harry Wallace Anderson	Claude William Mitchell
Mark Warren Bly	Paul Martin Rogers
Edwin Henry Corbin	Walter Herbert Stowe
Louis Richard Eby	Loys Arland Thompson
Glenn Smith Hoag	William Gordon Wallace
Garland Edison Lewis	Olivia Mildred Young

THE GRADUATE COLLEGE

MASTERS OF ARTS—23

- Emma Nathalia Anderson, A. B. 1910—Botany
 Ruby Barnebey, A. B. 1909—English Language and Literature
 Morris Joslin Blish, B. Sc. 1912—Agricultural Chemistry
 Jacob P. Buller, A. B. 1911—Germanics
 Leon Leslie Caviness, A. B. 1906, Michigan—Germanics, Roman Languages, Sanskrit
 Letta May Clark, A. B., 1905, Nebraska Wesleyan University—English Language and Literature
 Harold Walter Elley, B. Sc. 1912—Chemistry
 Halle Laura Ewing, A. B. 1911; M. D. 1899, University of Michigan—Sociology
 Ellis Ingham Fulmer, A. B. 1912, Nebraska Wesleyan University—Chemistry
 Maude Hazel Gaeckler, A. B. 1911—Greek, Sanskrit, Latin
 Oliver Holmes Gish, B. Sc. 1908, Kansas State Agricultural College—Physics
 Harry Victor Malan Hall, A. B. 1912, Pomona College—Zoology
 Margaret Louise Hannah, A. B. 1907—Botany
 Helma Lou Holmes, A. B. 1909—Mathematics, Philosophy
 Mark Eastwood Hutchinson, A. B. 1910, Ohio Wesleyan University—Latin
 Mary Jeanette Inches, Ph. B. 1902, Chicago University—English Language and Literature.
 Jessie Alice Lee, A. B. 1910—Botany
 Edward Hildreth Loveland, B. Sc. 1910, Dartmouth College—Dairy Husbandry, Farm Management
 Adah Lillian Newton, A. B. 1910, Doane College—English Language and Literature
 Jean Sullivan, A. B. 1908—Sociology
 Joseph William Tobiska, B. Sc. 1912—Chemistry
 Edith Adella Van Middlesworth, A. B. 1908, Nebraska Wesleyan University—Geography
 Evans Alvah Worthley, A. B. 1908, Nebraska Wesleyan University—Sociology

MASTERS OF FORESTRY—4

- Ralph Ewart Bodley, B. Sc. 1912—Forestry, Botany
 Samuel Vanstone Fullaway, Jr., B. Sc. 1912—Forestry, Botany
 Richard Terrell Guthrie, B. Sc. 1912—Forestry, Botany
 Ernest Theodore Frederick Wohlenberg, B. Sc. 1912—Forestry, Botany

MASTER OF SCIENCE IN MECHANICAL ENGINEERING—1

- Edward Ruger Wiggins, B. Sc. 1908, University of Wisconsin—Mechanical Engineering

DOCTORS OF PHILOSOPHY—2

- Claude William Mitchell, A. B. 1910, A. M. 1911—Zoology, Pharmacology
 Raymond John Pool, A. B. 1907, A. M. 1908—Botany, Geography

Summer Session Commencement—1913**THE COLLEGE OF ARTS AND SCIENCES****BACHELORS OF ARTS—13**

Ernest Edward Dale
 Mabel Elizabeth Dow
 Phillip Leslie Franklin
 Laura Rebecca Knotts
 Robert Emmet McHugh
 Harold Fleming Morrison
 Lillie Fern Newbrey

Harriet Orvis
 Mildred Merle Patton
 Howard Paine Shumway
 Gladys Mary Smith
 Julia Helen Van Driel
 William Thomas Wolvington

BACHELOR OF SCIENCE—1

Arbor Day Munger

THE COLLEGE OF AGRICULTURE**BACHELOR OF SCIENCE IN AGRICULTURE—1**

Arnold Christian Kuenning

THE COLLEGE OF ENGINEERING**BACHELORS OF SCIENCE IN CIVIL ENGINEERING—2**

Robert Slothower Boynton

Edson Ozro Walker

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING—1

William Harrison Shaw

THE GRADUATE COLLEGE**MASTERS OF ARTS—13**

Ruth Mary Bates, A. B. 1910—Botany

Lucile Blanche Eads, A. B. 1912—American History

Frank Emerson Green, A. B. 1911, Tabor College—American History, Political Science and Sociology

Lida Emelyn Hougas, A. B. 1911, Oskaloosa College—Educational Theory and Practice, Sociology

Charles Bopes Lee, B. Sc. 1909, University of Illinois—Animal Husbandry

Garland Edison Lewis, B. Sc. 1909, Grand Island College—Chemistry

Blanche Margaret Lyman, A. B. 1912—American History

Frank C. Miles, A. B. 1912—Horticulture

Samuel W. Moore, B. Sc. 1908, University of Arkansas—Sociology

Thomas Wesley Moseley, B. Sc. 1912—Agricultural Botany

Henry Jephtha Sealey, B. D. 1907, BB. L. 1908, Atlanta Seminary—Philosophy.

Albert David Sprouse, A. B. 1909, Greenville College—Educational Theory and Practice, Sociology

Edith Blanche Williams, A. B. 1913—European History

HONORARY DEGREES

June 10, 1913

DOCTORS OF AGRICULTURE—2

Albert Fred Woods

Herbert John Webber

December 9, 1913

DOCTORS OF LAWS—3

Roscoe Pound
George Purcell Costigan

Mancach Bostic Reese

Certificates Granted—1913¹

THE TEACHERS COLLEGE DIPLOMA AND UNIVERSITY TEACHERS'

CERTIFICATES—61

Edna Anna Arends
Estella May Bender
Marjorie Hart Blackman
Mary Barbara Bookmeyer
Mary Helen Cameron
Millie Cherny
Helen Dinsmore
Hazel Charlotte Fishwood
Robin Wynne Fitch
Cora Louisa Friedline
Maude Hazel Gaeckler
Irma Vida Gibson
Ralph Dennis Green
Matie Ella Hall
Laura Grace Hanson
Mary Pricilla Holcomb
Mary Belle Hooton
Lida Emelyn Hougas
Rena Althea Howard
Ruth Hyder
Nellie Marian Jones
Olive Hawley Keller
Dora Aldona Kidd
Pauline Bune Kohn
Laura Rebecca Knotts
Marjorie Lichtenwallner
Edna Ruth Lindley
Blanch Margaret Lyman
Louise Elizabeth Mc Nerney
Olive Beulah Mann
Alice Amanda Mattison

Agnes Sophia Meline
Louise Meredith
Mamie Meredith
Igera Montgomery
Dora Gine Nyrop
Edith Olive Parrish
Mildred Olive Piper
Mabel Maude Pope
Mildred Rebecca Pope
Rebecca Ruth Poska
Mary Ethel Robbins
Alice Evelyn Root
Beth Symphrose Ryan
Helen Martha Safford
Mary Salome Schwertley
Aurelia Marion Scott
Edna Pearl Shields
Lillian Edith Shrum
Mildred Louise Sisty
Marie Josephine Smart
Gladys Mary Smith
Sylvia Lee Smith
Willa Waneta Spier
Cecilia Caroline Stenger
John Theodore Swan
Grace Knowlton Truell
Anna Margaret Veith
Abbie Western
Edith Blanche Williams
Margaret Wooster

PHYSICAL EDUCATION CERTIFICATES—5

Florence Farman
Ethel Dorothy Johnson
Edith Rose Shank

Erma Sullivan
Marien Frances Swezey

¹ See foot-note on page 462.

SCHOOL OF AGRICULTURE CERTIFICATES—51

Charles Marion Armstrong	Delia Amanda Monnich
Sam Bennis	Harry Nicholas
Floyd Orvil Blanchard	Sidney Pearce
John Royal Bovey	Catharine Petring
Hazel Mae Bowman	Frank Andrew Pettett
Edgar Merl Brouse	Victor Reuben Phillipsen
Ora Clayton Brown	Hall Addison Pollard
Linus Chase	Verner William Post
Edna Belle Day	William Gramlich Rice
Henry Robert Day	Benjamin Cattle Roe
Alma Doreus Eaton	Wilber Anthony Rogers
Louise Henrietta Fuerst	Carl Milton Rydberg
Lois Mahala Gifford	Frank Edward Safford
Fred William Gramlich	Joseph Benjamin Shepherd
John Edwin Harding	George Andrew Shroyer
Alice Benjamine Hayward	Anton William Skudrna
Sophia Dorothea Koester	Joseph Robert Steadman
Frances Larsen	Emma Elizabeth Stenger
Lloyd Henry Lehmkuhl	Helen Louise Thomas
Anna Otilia Liebers	Wylie Ray Ward
Abigail Mary McConnell	Roland Monroe Whitmore
Madge Maloy	Carl William Wilkens
Mayme Maloy	Fannie Lyon Wood
Earl James Mattock	Della May Yates
Dorothy Frances Meese	Joseph Harden Yensen

TEACHERS' COLLEGE HIGH SCHOOL CERTIFICATES—30

Oscar William Alm	Vivian Knight
Nettie Margaret Anderson	Sherman Lamphere
Ralph Carl Anderson	Myrtle Marie LeMay
Donald A. Chapin	Beulah Alice McCue
Bertha Dusatko	Roma McDivitt
Alice Merle Eversole	Mary Elizabeth Mills
Ruth Emma Fernow	Marguerite Polk
Anabel Charlotte Forrest	Floyd Reed
Charles France	Harrold C. Schwenker
Robert Gentry	Mildred Lee Shea
Henry C. Harper	Benjamin Harrison Turner
Harry Evans Harvey	Guy Weigand
Eleanor Hudson	Gladys Wilkinson
Max Hueftle	James Williams
Cecil Jack	Andrew Conland Wilson

STATE MILITARY COMMISSIONS—54

Colonel—Carl Jacobs Lord

Lieutenant Colonel—Charles Kenneth Paine

Majors—Arlie Walter Dewey, John Thomas Dirks, Louis Trumble Gramlich, Clarence Ferdinand Korstian, Charles Benjamin Peery, Earl John Taylor

Captains—Leo Allen Bechter, George Howard Brother, Earle Russell Carse, William Ridgely Chapline, Jr., Clinton Daniel Heine, Edward Huwaldt, Reuben Allyn Moser, Arbor Day Munger, Lewis Snow Peirce, Morton Steinhart, James Alton Waters, Leslie Andrew Welch, William Wallace Wenstrand, George Balch Wilson, Frederick Alfred Wirt

First Lieutenants—Myrle Charles Evans, Ralph Archie Haggart, Ray Morten Higgins, Otto August Sinkie.

Second Lieutenants—Hubert Melvin A. Frost, Arthur Gray George, Sydney Ober Reese, Jr., Edson Ozro Walker

(SCHOOL OF AGRICULTURE)

Colonel—Earl James Mattock

Lieutenant Colonel—Henry Robert Day

Majors—William Gramlich Rice, John Edwin Harding

Captains—Anton William Skudrna, Roland Monroe Whitmore, Hall Addison Pollard, Joseph Benjamin Shepherd, Wilber Anthony Rogers, Fred William Gramlich

First Lieutenants—Lloyd Henry Lehmkuhl, Sidney Pearce, Charles Marion Armstrong, Carl William Wilkens, Edgar Merl Brouse, Floyd Orvil Blanchard

Second Lieutenants—Verner William Post, Joseph Robert Steadman, Linus Chase, Carl Milton Rydberg, Wylie Ray Ward, John Royal Bovey, Frank Edward Safford

THE UNIVERSITY OF NEBRASKA

GRADUATE STUDENTS IN 1913-1914

Candidates for the Degree of Doctor of Philosophy

Andersen, Emma Nathalia	.....	Ame
A. B. 1910, A. M. 1913, The University of Nebraska		
Botany		
Aul, William Eugene Adolphus	.....	College View
B. Sc. 1897, M. S. 1899, Battle Creek College; A. M. 1912, The University of Nebraska		
Education, Political Science and Sociology, American History		
Barns, Viola Florence	.....	Albion
A. B. 1909, A. M. 1910, The University of Nebraska		
American History, English Literature		
Bengtson, Nels August	.....	Lincoln
A. B. 1907, A. M. 1908, The University of Nebraska		
Geography		
Borrowman, Geoge	.....	Lincoln
B. Sc. 1905, University of Minnesota; A. M. 1907, The University of Nebraska		
Chemistry, Geology		
Brethouwer, Berend John	.....	Normal
A. B. 1909, Cotner University; A. M. 1910, The University of Nebraska		
Philosophy, Education		
Carroll, Charles Eden	.....	Lincoln
A. B. 1905, Morningside College; A. M. 1912, The University of Nebraska		
Sociology, Political Economy		
Clark, Letta May	.....	University Place
A. B. 1905, Nebraska Wesleyan University; A. M. 1913, The University of Nebraska		
English Language and Literature		
Cornell, Clare Brown	.....	Lincoln
A. B. 1905, A. M. 1912, The University of Nebraska		
Philosophy, Education		
Currens, Frederick Hawley	.....	Omaha
A. B. 1904, A. M. 1907, Coe College		
Chemistry, Bacteriology		
Gaekler, Maude Hazel	.....	Lincoln
A. B. 1911, A. M. 1913, The University of Nebraska		
Greek, Sanskrit, Latin		
Gail, Floyd Whitney	.....	Lincoln
A. B. 1911, A. M. 1912, The University of Nebraska		
Botany, Geography		
Gilmore, Melvin Randolph	.....	Bethany
A. B. 1904, Cotner University; A. M. 1909, The University of Nebraska		
Botany, Geography		
Hannah, Margaret Louise	.....	Tilden
A. B. 1907, A. M. 1913, The University of Nebraska		
Botany		
Hargett, Anderson J	.....	Lincoln
A. B. 1897, A. M. 1905, State University of Kentucky		
Mathematics, Civil Engineering, Astronomy		

- Hawes, Annie.....Lincoln
 B. L. 1902, Nebraska Wesleyan University; A. M. 1912, The University of Nebraska
 Political Science and Sociology, Political Economy
- Hilton, John William.....Bethany
 A. B. 1898, Cortner University; A. M. 1903, The University of Nebraska
 Ethics, Psychology, Sociology
- Howard, Lawrence Riggs.....Lincoln
 A. B. 1898, A. M. 1907, Williams College
 Philosophy, Sociology, English Literature
- Howie, Ethel Lee.....Lincoln
 A. B. 1906, The University of Nebraska
 European History, English Language and Literature
- Inouye, Joshima.....Lincoln
 A. M. 1906, University of Denver; A. M. 1909, The University of Nebraska
 Political Economy, Political Science and Sociology
- Krueger, John Fritz.....Atchison, Kans.
 A. B. 1903, Midland College
 Sociology, American History
- McCreery, Guy Winters.....Lincoln
 A. B. 1897, A. M. 1903, University of Denver
 Political Science and Sociology, Philosophy
- Mantor, Edna Clara.....Lincoln
 A. B. 1909, The University of Nebraska
 Zoology, Physiology
- Price, Harry Heffner.....Aurora
 A. B. 1900, A. M. 1903, Western Maryland College
 Philosophy, Education
- Putnam, John Jacob.....Lincoln
 B. Sc. 1904, A. M. 1906, University of Denver
 Bacteriology, Chemistry
- Rowell, Winifred Marie Peebles.....College View
 A. B. 1894, Battle Creek College; A. M. 1900, The University of Nebraska
 English Literature
- Runge, Lulu Lillian.....Madison, Wis.
 A. B. 1905, A. M. 1909, University of Wisconsin
 Mathematics
- Singer, Jacob.....Lincoln
 A. B. 1907, A. M. 1908, University of Cincinnati
 Philosophy
- Sturdevant, Lazelle Brantley.....Lincoln
 A. B. 1902, B. Sc. 1903, A. M. 1905, M. D. 1909, The University of Nebraska
 Bacteriology, Zoology
- Van Middlesworth, Edith Adella.....Peru
 A. B. 1908, Nebraska Wesleyan University; A. M. 1913, The University of Nebraska
 Education, English History, American History, English Literature
- Walker, Leva Belle.....Lincoln
 A. B. 1901, Pacific University; A. M. 1908, The University of Nebraska
 Botany

THE UNIVERSITY OF NEBRASKA

Whitford, Arley Claude.....	Lincoln
Ph. B. 1907, Alfred University	
Geology, Botany, Chemistry	
Williams, Hattie Plum.....	Lincoln
A. B. 1902, A. M. 1909, The University of Nebraska	
Political Science and Sociology	

Candidates for the Degree of Master of Arts

Alber, John Gottfried.....	Lincoln
A. B. 1911, Cotner University	
Political Science and Sociology	
Alexander, Mary Charlotte.....	Lincoln
A. B. 1901, The University of Nebraska	
English Language and Literature	
Andrews, George Gordon.....	College View
A. B. 1912, Union College	
European History	
Atkins, Mary Elizabeth.....	University Place
A. B. 1912, Nebraska Wesleyan University	
English Literature, Philosophy	
Austin, Blanche May.....	Lincoln
A. B. 1909, The University of Nebraska	
Latin, English Language and Literature	
Bates, Ruth Mary.....	Lincoln
A. B. 1910, A. M. 1913, The University of Nebraska	
Botany	
Beattie, Ethel Blanche.....	Lincoln
A. B. 1898, the University of Nebraska	
Latin	
Becker, Wesley Charles.....	Salt Lake City, Utah
A. B. 1912, The University of Nebraska	
Zoology	
Behle, Bertha Amelia.....	Osceola
A. B. 1908, Nebraska Wesleyan University	
Germanics	
Bell, Henry.....	Denison, Ia.
A. B. 1913, State University of Iowa	
Philosophy	
Benda, Theodore.....	Shelby
A. B. 1908, The University of Nebraska	
Philosophy, Political Economy	
Bowen, Harold Linwood.....	South Omaha
A. B. 1909, University of Oklahoma	
English Language and Literature	
Boyer, Susie Estelle.....	Tarkio, Mo.
A. B. 1906, Tarkio College	
English Language and Literature	
Brother, George Howard.....	Beatrice
B. Sc. 1913, The University of Nebraska	
Agricultural Chemistry	

ROSTER OF STUDENTS

565

Bullock, Theodore Tunison.....	Lincoln
A. B. 1911, The University of Nebraska	
Political Economy	
Bunten, Glenetta Grace.....	University Place
A. B. 1910, Nebraska Wesleyan University	
English Literature, Rhetoric	
Cameron, Mary Helen.....	Lincoln
A. B. 1913, The University of Nebraska	
American History	
Caviness, Anson Lorenzo.....	Fairbury
Ph. B. 1890, Illinois Wesleyan University	
Educational Theory and Practice	
Cheney, Walter Lynn.....	Chardon, Ohio
A. B. 1913, Oberlin College	
Physics	
Cobb, Leon William.....	College View
A. B. 1913, Union College	
English Literature	
Coleman, William Henry.....	Bertrand
A. B. 1909, Nebraska Wesleyan University	
Educational Theory and Practice, Philosophy	
Coons, Franklin Wayne.....	Lincoln
A. B. 1914, The University of Nebraska	
English Language and Literature, Philosophy	
Cooper, Jessie.....	Lincoln
B. Sc. 1910, Valparaiso University	
Latin, English Literature	
Coulter, Clara Idella.....	Wymore
B. Sc. 1910, Nebraska Wesleyan University	
Philosophy, Political Science and Sociology	
Covey, George Worthington.....	College View
B. Sc. 1912, The University of Nebraska	
Zoology	
Crozier, Grace Leal.....	Osceola
A. B. 1910, Nebraska Wesleyan University	
English Language and Literature	
Dale, Ernest Edward.....	Greenwood
A. B. 1913, The University of Nebraska	
Horticulture	
Davis, Guy Russell.....	Lincoln
A. B. 1912, The University of Nebraska	
Animal Husbandry	
Dawson, Ralph Ward.....	Lincoln
B. Sc. 1912, The University of Nebraska	
Entomology	
Day, Elsie.....	Lincoln
A. B. 1908, Ph. G. 1910, The University of Nebraska	
Botany, Pharmacology	
Debel, Niels Henriksen.....	Blair
A. B. 1913, The University of Nebraska	
Political Science, Political Economy, American History	

THE UNIVERSITY OF NEBRASKA

Denny, Glaideth Gainevere.....	Lincoln
A. B. 1908, The University of Nebraska	
Germanics	
Donaldson, James Cook.....	Lincoln
B. Pe. 1906, B. E. 1910, B. S. 1910, Drake University	
Education, Philosophy	
Drake, Nellie Boyd.....	Broken Bow
A. B. 1911, The University of Nebraska	
Philosophy	
Dunham, Frances Aileen.....	Lincoln
A. B. 1912, The University of Nebraska	
Germanics	
Dworak, Mayme.....	Lincoln
A. B. 1909, The University of Nebraska	
Botany	
Eads, Lucile Blanche.....	Lincoln
A. B. 1912, A. M. 1913, The University of Nebraska	
American History	
Eaton, Roy Wesley.....	Lincoln
A. B. 1913, The University of Nebraska	
Education, Geography	
Evans, Paul Whiting.....	Bellevue
A. B. 1909, The University of Nebraska	
Botany, Chemistry	
Folts, Grace Abbott.....	Grand Island
Ph. B. 1901, Nebraska Wesleyan University	
English Language and Literature	
Forbes, William P.....	Lincoln
B. Sc. 1912, The University of Nebraska	
Dairy Husbandry	
Fosnot, Rolla Thayer.....	Davenport
A. B. 1912, Nebraska Wesleyan University	
Educational Theory and Practice	
Friedline, Cora Louisa.....	Lincoln
A. B. 1913, The University of Nebraska	
Philosophy, Latin	
Gaddis, Porter Lemuel.....	Lincoln
A. B. 1908, Greenville College	
Agronomy	
Galpin, Marion Chesley.....	Harlan, Ia.
A. B. 1911, Tabor College	
American History	
Geissler, Paul Christopher.....	Colorado Springs, Colo.
A. B. 1914, The University of Nebraska	
Anatomy	
George, Selim Shihadeh.....	Jerusalem, Palestine
A. B. 1912, Syrian Protestant College	
Philosophy, Education	
Glass, Jessie June.....	Lincoln
A. B. 1909, The University of Nebraska	
English Language and Literature	

ROSTER OF STUDENTS

567

Gomon, Charles Guy.....	Lincoln
A. B. 1913, Nebraska Wesleyan University	
Political Science and Sociology	
Graves, Harriet.....	Lincoln
A. B. 1912, The University of Nebraska	
English Language and Literature, French	
Gray, Viola Clarke.....	Lincoln
A. B. 1902, The University of Nebraska	
History, English Literature	
Green, Frank Emerson.....	Malvern, Ia.
A. B. 1911, Tabor College; A. M. 1913, The University of Nebraska	
American History, Political Science and Sociology	
Griffith, Donee.....	Wayne
A. B. 1912, The University of Nebraska	
Geography	
Grimm, Florence Marie.....	Lincoln
A. B. 1912, The University of Nebraska	
Philosophy	
Harms, Charles Wesley Warren.....	Omaha
B. Sc. 1912, The University of Nebraska	
Zoology	
Hayden, Myrtle Gladys.....	University Place
A. B. 1910, Nebraska Wesleyan University	
English Language and Literature	
Helm, Charles Albert.....	Lincoln
B. Sc. 1913, University of Missouri	
Experimental Agronomy	
Hiltner, Arthur Herbert.....	Lincoln
B. Sc. 1913, The University of Nebraska	
Zoology	
Hinterlong, Anna Laura.....	Minden
A. B. 1909, The University of Nebraska	
Geology, Geography	
Hoff, Robert Lee.....	Lincoln
A. B. 1894, University of Kansas	
Mathematics	
Holmes, Rachel Edna.....	Hastings
A. B. 1910, The University of Nebraska	
Botany	
Hooton, Mary Belle.....	Lincoln
A. B. 1913, The University of Nebraska	
English Literature, American History	
Hougas, Lida Emelyn.....	University Place
A. B. 1911, Oskaloosa College; A. M. 1913, The University of Nebraska	
Educational Theory and Practice, Sociology	
Hrbkova, Sarka.....	Lincoln
A. B. 1909, University of Iowa	
English Language and Literature, Political Science and Sociology	
Hummel, Ethel Katherine.....	Lincoln
A. B. 1912, The University of Nebraska	
Latin	

THE UNIVERSITY OF NEBRASKA

Humpe, Alice A.	B. Sc. 1911, The University of Nebraska Political Science	Lincoln
Jensen, John Christian	B. Sc. 1909, Nebraska Wesleyan University Physics	University Place
Johnson, Caroline Christine	A. B. 1904, The University of Nebraska Germanics, Latin	Marquette
Johnson, Swen Oscar	A. B. 1908, Augustana College Chemistry	Wahoo
Kechley, Edward Louis	A. B. 1908, Cotner University Philosophy	Bethany
Kendrick, Raymond Henderson	B. S. 1910, Greenville College American History	Sherburne, N. Y.
Kirk, William	A. B. 1912, Tarkio College Chemistry	Lincoln
Kramer, Bertha Nathalia	B. Sc. 1911, The University of Nebraska Botany	Aurora
Kuns, David Raymond	A. B. 1912, York College English Language and Literature	Bellwood
Lacey, Herbert Camden	A. B. 1895, Battle Creek College Greek	College View
Lee, Charles Bopes	B. Sc. 1909, University of Illinois; A. M. 1913, The University of Nebraska Animal Husbandry	Lincoln
Lemmon, Clarence Eugene	A. B. 1913, Cotner University Sociology	Ashland
Lealle, Kenneth	A. B. 1912, Dalhousie University Philosophy, Political Science and Sociology	Halifax, N. S.
Lewis, Garland Edison	B. Sc. 1909, Grand Island College; A. M. 1913, The University of Nebraska Chemistry	Lincoln
Lindley, Edna Ruth	A. B. 1913, The University of Nebraska Greek, Latin, Sanskrit	Omaha
Longman, Edward Harvey	A. B. 1908, Cotner University Philosophy, Education	Bethany
Loomis, Lucinda Bills	A. B. 1903, The University of Nebraska European History	Lincoln

Luckey, Henry Carl.....	Lincoln
A. B. 1911, LL. B. 1912, The University of Nebraska	
Political Science and Sociology	
Lyman, Blanche Margaret.....	Lincoln
A. B. 1912, A. M. 1913, The University of Nebraska	
American History	
McCray, Minnie Vergil.....	Manhattan, Kans.
B. Sc. 1911, Kansas State Agricultural College	
Political Economy, Sociology	
McCray, Viva Margaret.....	Manhattan, Kans.
B. Sc. 1911, Kansas State Agricultural College	
Fine Arts	
Maitani, Hikojiro.....	Takamatsu, Japan
A. B. 1913, University of Denver	
Jurisprudence and Public Law, Economics	
Markward, Herbert William.....	Funk
B. Sc. 1913, The University of Nebraska	
Botany	
Marquardt, Eda Louise.....	Avoca
A. B. 1905, The University of Nebraska	
Germanics	
Maudlin, Mina May.....	Ladora, Ia.
A. B. 1902, State University of Iowa	
Latin, English Language and Literature	
Medlar, Arthur Walton.....	Lincoln
B. Sc. 1906, Doane College	
Agronomy	
Melvin, Willa Blanche.....	Elgin
A. B. 1910, Nebraska Wesleyan University	
Education, English Language and Literature	
Meredith, Mamie Jane.....	Lincoln
A. B. 1913, The University of Nebraska	
English Language and Literature, Rhetoric	
Miles, Frank C.....	Lynch
A. B. 1912, A. M. 1913, The University of Nebraska	
Horticulture	
Miller, Edna Emma.....	Lincoln
B. Sc. 1913, The University of Nebraska	
Chemistry	
Mitchell, Helene Schwab.....	Lincoln
A. B. 1911, The University of Nebraska	
Rhetoric	
Monroe, Ernest Franklin.....	Shelton
LL. B. 1904, A. B. 1907, The University of Nebraska	
Education, Philosophy	
Moomaw, Leon Austin.....	Bethany
A. B. 1911, Cotner University	
American History, Political Science and Sociology	
Moore, Calvin Turner.....	Lincoln
B. Sc. 1911, The University of Nebraska	
Geology	

- Moore, Samuel W. Hiawatha, Kans.
B. Sc. 1908, University of Arkansas: A. M. 1913, The University of Nebraska
Sociology
- Morgan, Jennie Amelia Craig
A. B. 1905, Nebraska Wesleyan University
English Language and Literature, Rhetoric
- Morse, Charles Kennedy Lincoln
A. B. 1914, The University of Nebraska
Educational Theory and Practice, American History
- Moseley, Thomas Wesley Lincoln
B. Sc. 1912, A. M. 1913, The University of Nebraska
Agricultural Botany
- Mottinger, Charles Wesley University Place
A. B. 1910, The University of Nebraska
Political Science
- Nelson, Enoch Wesley Lincoln
B. Sc. 1913, The University of Nebraska
Botany
- Nelson, Henry Gilbert Brush, Colo.
A. B. 1903, The University of Nebraska
Educational Theory and Practice, Political Science and Sociology
- Neuswanger, William Ernest Greeley, Colo
A. B. 1913, Colorado College
Physics
- Noble, Blanche Olive College View.
A. B. 1913, Union College
English Literature
- Noll, William Clarence Lincoln
A. B. 1911, York College
Zoology
- Noyes, Bessie Lincoln
A. B. 1911, The University of Nebraska
Agricultural Botany
- O'Brien, Ruth Lincoln
B. Sc. 1914, The University of Nebraska
Chemistry
- Orr, Ralph Waldo Lincoln
A. B. 1913, The University of Nebraska
Greek
- Parsons, Susanne Ring Lincoln
B. Sc. 1914, The University of Nebraska
Zoology
- Pate, Merl Sonderland Orleans
A. B. 1913, University of Oregon
Political Economy
- Randall, Edna May Oberlin, Kansas
A. B. 1912, The University of Nebraska
Political Science and Sociology
- Ratcliff, John Anderson Lincoln
B. Sc. 1912, The University of Nebraska
Experimental Agronomy

ROSTER OF STUDENTS

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Reeves, William Marshall	Bethany
A. B. 1896, Northwestern Christian College, Ph. B. 1897, Drake University	
Mathematics	
Remp, Martin	Hastings
A. B. 1904, University of Wooster	
Educational Theory and Practice, Political Science and Sociology	
Ripperton, John Carson	Wichita, Kans.
A. B. 1913, Fairmount College	
Chemistry	
Roddy, Mary Elizabeth	Nebraska City
A. B. 1904, The University of Nebraska	
English Literature, Latin	
Romer, Peter Kofod	Blair
A. B. 1913, The University of Nebraska	
Greek, Latin, Sanskrit	
Rutledge, Edward Markwood	Lincoln
A. B. 1909, The University of Nebraska	
Geography and Conservation	
Schulte, Mary Anna	Lincoln
A. B. 1911, The University of Nebraska	
Agricultural Botany	
Schulte, Regina Bernardine	Lincoln
A. B. 1911, The University of Nebraska	
Germanics	
Scriven, Dee Matthias	Lincoln
A. B. 1913, The University of Nebraska	
Agronomy	
Sealey, Henry Jeptha	Lincoln
B. D. 1907, BB. L. 1908, Atlanta Seminary; A. M. 1913, The University of Nebraska	
Philosophy	
Sears, Paul Bigelow	Bucyrus, Ohio
B. Sc. 1913, Ohio Wesleyan University	
Botany	
Shanafelt, Otis Guy	Lincoln
A. B. 1910, University of Michigan	
English Language and Literature	
Short, Mamie Frances	Lincoln
B. Sc. 1903, The University of Nebraska	
Education	
Shumway, Howard Paine	Wakefield
A. B. 1913, The University of Nebraska	
Philosophy	
Skinner, Lewellyn Terry	Lincoln
B. Sc. 1914, The University of Nebraska	
Geography	
Smith, Joseph Earl	East Enid, Okla.
A. B. 1909, Cotner University	
Philosophy	
Smith, Margaret J.	Lincoln
A. B. 1908, The University of Nebraska	
Philosophy, Mathematics	

Smith, Nellie Rosella.....	College View
A. B. 1911, Union College	
English Literature	
Sprouse, Albert David.....	Lincoln
A. B. 1909, Greenville College; A. M. 1913, The University of Nebraska	
Educational Theory and Practice, Sociology	
Sterett, Walter Brooks.....	Lincoln
A. B. 1895, A. M. 1897, Washington and Jefferson College	
Political Science, Educational Theory	
Stimson, James Miller.....	Pawnee, Okla.
B. Sc. 1899, Iowa State College	
American History, Educational Theory	
Stoner, Walter Welles.....	York
A. B. 1893, Otterbein University	
Education	
Sublette, Jeanette Estelle.....	Nebraska City
A. B. 1914, The University of Nebraska	
Mathematics	
Talbot, John Edgar.....	Fairfield
A. B. 1910, Nebraska Wesleyan University	
Education	
Taylor, Sarah Elizabeth Smith.....	Lincoln
A. B. 1898, The University of Nebraska	
English Language and Literature	
Teach, Charles Elden.....	University Place
A. B. 1903, The University of Nebraska	
Political Science and Sociology	
Thiel, Leo Francis.....	College View
A. B. 1911, Union College	
English Language and Literature	
Thomas, James Lloyd.....	Lincoln
B. Sc. 1909, The University of Nebraska	
Agronomy	
Thompson, Harry Landis.....	Lincoln
B. Sc. 1912, The University of Nebraska	
Pharmacy	
Thurber, Francis Henry.....	Lincoln
A. B. 1913, Lawrence College	
Chemistry, Education	
Vail, Nellie Antoinette.....	Lincoln
A. B. 1909, The University of Nebraska	
Botany, Educational Theory and Practice	
Vance, Amos Milton.....	Lincoln
B. E. 1911, Peru State Normal	
Political Science and Sociology	
Vasey, Harvey Elmer.....	Liberty
B. Sc. 1913, The University of Nebraska	
Agricultural Botany	
Walker, Arthur Bruce.....	University Place
B. Sc. 1903, Nebraska Wesleyan University	
Agricultural Chemistry	

GRADUATE STUDENTS

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Walker, Earl Fiske.....	University Place
A. B. 1909, Nebraska Wesleyan University	
Chemistry	
Walker, Florence.....	University Place
A. B. 1911, Nebraska Wesleyan University	
American History, Political Science and Sociology	
Warwick, Charles William.....	Oakdale
A. B. 1911, Nebraska Wesleyan University	
American History, Political Science and Sociology	
Whitehead, Lucretia Fleming.....	Denver, Colo.
A. B. 1906, Colorado College	
Germanics	
Wickland, Arthur Julius.....	River Falls, Wis.
A. B. 1911, The University of Nebraska	
English Language and Literature	
Williams, Edith Blanche.....	Lincoln
A. B. 1913, A. M. 1913, The University of Nebraska	
European History	
Wilsey, Rex Bishop.....	Tecumseh
B. Sc. 1913, The University of Nebraska	
Physics	
Wilson, Clara Owsley.....	Lincoln
A. B. 1912, The University of Nebraska	
Education	
Wittmann, Elizabeth Marie.....	Lincoln
A. B. 1911, The University of Nebraska	
Germanics, English Language	
Woodard, John Albert.....	Havelock
A. B. 1909, The University of Nebraska	
Education, Educational Psychology	
Wooster, Margaret.....	Silver Creek
A. B. 1913, The University of Nebraska	
Philosophy	

Candidates for the Degree of Master of Forestry

MacDonald, Gilmour Byers.....	Ames, Iowa
B. Sc. 1907, The University of Nebraska	
Forestry	
Parish, George Edward.....	Omaha
A. B. 1913, University of Omaha	
Forestry	

Candidate for the Degree of Agricultural Engineer

Davidson, Jay Brownlee.....	Ames, Iowa
B. Sc. 1904, The University of Nebraska	

Candidates for the Degree of Electrical Engineer

Bennett, Claudius Edmund.....	Provo, Utah
B. Sc. 1909, The University of Nebraska	
Johnson, Clarence Anthony.....	Lawrence, Kans
B. Sc. 1906, The University of Nebraska	

THE UNIVERSITY OF NEBRASKA

Candidate for the Degree of Mechanical Engineer

Chase, Leon Wilson	Lincoln
B. Sc. 1904, The University of Nebraska	

Candidates for the Degree of Master of Science in Agricultural Engineering

Seaton, Lawrence Froyd	Lincoln
B. Sc. 1911, The University of Nebraska	
Wood, Ivan Daley	Lincoln
B. Sc. 1912, The University of Nebraska	

Candidates for the Degree of Master of Science in Civil Engineering

Nichols, Charles Leslie	Lincoln
B. S. 1907, Franklin College	
Civil Engineering	
Peterson, Theodore Carl	Carter
B. Sc. 1911, Grinnell College; B. Sc. 1914, The University of Nebraska	
Civil Engineering	

Candidate for the Degree of Master of Science in Electrical Engineering

Walker, Glen Alan	Lincoln
B. Sc. 1914, The University of Nebraska	

Graduate Students Without Reference to a Degree

Alexander, Bess	Wahoo
A. B. 1912, The University of Nebraska	
Arnold, Frieda Elisabeth	Lincoln
A. B. 1912, The University of Nebraska	
Beck, Paul Henry	Beatrice
A. B. 1912, Central Wesleyan College	
Bissell, Edna Erma	Dexter, Ia.
B. Sc. 1913, Drake University	
Blomenkamp, August Ernest Henry	Lincoln
B. Sc. 1913, The University of Nebraska	
Bryan, Edna Elizabeth	Lincoln
B. Sc. 1910, The University of Nebraska	
Bungor, Nels Calvin	College View
B. Sc. 1910, Union College	
Burrage, Dwight Crafton	Crete
A. B. 1897, A. M. 1899, Amherst College	
Carns, Helen Mitchell	Lincoln
A. B. 1913, The University of Nebraska	
Chapman, Howard Rufus	Lincoln
A. B. 1894, Shurtleff College	
Clark, Ellen Elizabeth	Lincoln
A. B. 1906, The University of Nebraska	
Clark, Grace Maria	Lincoln
A. B. 1907, The University of Nebraska	

Claybaugh, Joseph Harrison	Valley
B. Sc. 1912, Bellevue College	
Cole, Frank Trimmer	Lincoln
C. E. 1909, Ohio Northern University	
Coons, Laura Anna Pettijohn	Lincoln
A. B. 1910, The University of Nebraska	
Copeland, Fred Smith	Douglas
A. B. 1908, The University of Nebraska	
Cowen, Charles Edward	Clay Center
B. S. 1910, Drake University	
Crawford, George Ewing	Wood River
B. Sc. 1911, Hastings College	
Davis, Celia Grace	Lincoln
A. B. 1912, The University of Nebraska	
Dinsmore, Francis Elmer	Lincoln
A. B. 1911, The University of Nebraska	
Ewing, Halle Laura	Lincoln
M. D. 1899, University of Michigan; A. B. 1911, A. M. 1913, The University of Nebraska	
Feemster, Charles Ferguson	York
A. B. 1911, York College	
Filley, Horace Clyde	Lincoln
A. B. 1903, A. M. 1911, The University of Nebraska	
Frank, William Ernest	Grand Island
A. B. 1913, The University of Nebraska	
George, Arthur Gray	Cumro
B. Sc. 1913, The University of Nebraska	
Good, Anabel	Lincoln
A. B. 1913, The University of Nebraska	
Green, Ralph Dennis	Lincoln
A. B. 1913, The University of Nebraska	
Gund, Edna Mann	Lincoln
A. B. 1903, The University of Nebraska	
Gund, Ida May	Lincoln
A. B. 1901, The University of Nebraska	
Hanley, Fred Reinig	Lincoln
A. B. 1912, The University of Nebraska	
Hanthorn, Emma Evelyn	Lincoln
A. B. 1912, The University of Nebraska	
Hardy, Elizabeth Seacrest	Lincoln
A. B. 1895, The University of Nebraska	
Hare, Robert Ammiel	College View
A. B. 1910, Union College	
Harman, Dewey Jehu	Lincoln
A. B. 1913, The University of Nebraska	
Harms, Anno Milton	Wymore
A. B. 1911, Nebraska Wesleyan University	
Hathaway, Margaret Hazel	Holdrege
A. B. 1912, The University of Nebraska	
Herman, Irma Louise	Lincoln
A. B. 1912, The University of Nebraska	

Hesseltine, Dora Evelyn	Peru
A. B. 1908, The University of Nebraska	
Hewit, Emma Edna	Lincoln
A. B. 1910, The University of Nebraska	
Hodapp, Edward Paul	Lincoln
A. B. 1913, The University of Nebraska	
Holmes, Helma Lou	Gretna
A. B. 1909, A. M. 1913, The University of Nebraska	
Howard, Alice May Frost	Lincoln
Ph. B. 1876, The University of Nebraska	
Ingalsbe, Grace	Inland
B. Sc. 1901, Hastings College	
Jackson, Mary Frances	Lincoln
B. Sc. 1898, The University of Nebraska	
Jacobs, Burton LeRoy	Graysville, Tenn.
A. B. 1913, Union College	
Keech, Mary Lourena	Lincoln
A. B. 1911, The University of Nebraska	
Keim, Franklin Davis	Davenport
B. Sc. 1914, The University of Nebraska	
Kess, Benjamin True	Lincoln
A. B. 1910, The University of Nebraska	
Kies, Paul Philemon	Normal
A. B. 1911, Central Wesleyan College	
Knepper, Ruby Rosamond	Lincoln
A. B. 1910, The University of Nebraska	
Lamoreaux, Rhea	Omaha
A. B. 1913, The University of Nebraska	
Lockwood, Margaret Matilda	Lincoln
A. B. 1906, Michigan State Normal College	
McGee, Randall R.	Syracuse
A. B. 1911, The University of Nebraska	
McCrew, Marion Baird	Lincoln
A. B. 1907, Doane College	
McLain, Grace Norris	University Place
A. B. 1912, The University of Nebraska	
Melick, Marion Maud	Bethany
A. B. 1906, The University of Nebraska	
Mesner, Francis David	Central City
B. Sc. 1912, Pennsylvania College	
Mesner, Julia May	Central City
A. B. 1911, Nebraska Central College	
Miller, Louise	Lincoln
A. B. 1903, A. M. 1905, The University of Nebraska	
Monbeck, Roy Royer	Lincoln
B. Sc. 1911, The University of Nebraska	
Mulligan, Harold Rowe	Beatrice
A. B. 1913, The University of Nebraska	
Munger, Ruth	Lincoln
A. B. 1912, The University of Nebraska	

GRADUATE STUDENTS

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Munson, Grace Esther.....	Lincoln
A. B. 1910, The University of Nebraska; A. M. 1912, Wellesley College	
Myers, Eda Bernice.....	Lincoln
A. B. 1907, The University of Nebraska	
Oberlies, Louis Clark.....	Lincoln
A. B. 1895, A. M. 1899, The University of Nebraska	
Park, Fred Weimar.....	Lincoln
A. B. 1898, Drury College	
Parminster, Hugh Ernest.....	Bethany
A. B. 1911, Cotner University	
Pearson, Clara Helen.....	Wilcox
A. B. 1912, The University of Nebraska	
Perrine, Alma Leita.....	Mitchell
A. B. 1911, Cotner University	
Philpott, Mayme Ethelyn.....	South Omaha
A. B. 1911, Cotner University	
Plybon, Walter.....	University Place
B. Sc. 1908, Nebraska Wesleyan University	
Porter, Dorothy Maud.....	Haigler
A. B. 1908, The University of Nebraska	
Pyrrtle, Emma Ruth.....	Lincoln
A. B. 1904, A. M. 1907, The University of Nebraska	
Racely, Wilbur A.....	Pender
B. Sc. 1909, The University of Nebraska	
Reinsch, Frank Herman.....	Lincoln
A. B. 1909, A. M. 1912, The University of Nebraska	
Russel, Jouette Clark.....	McPherson, Kans.
B. Sc. 1911, McPherson College	
Salisbury, Grace Murray.....	Lincoln
A. B. 1912, The University of Nebraska	
Sandy, Charles Herbert.....	McPherson, Kans.
A. B. 1912, McPherson College	
Schmidt, Nelda A.....	Lincoln
A. B. 1911, The University of Nebraska	
Schreckengast, Joy Ruth.....	University Place
A. B. 1912, Nebraska Wesleyan University	
Shanek, Bertha.....	Odell
A. B. 1912, The University of Nebraska	
Smith, Jay.....	Council Bluffs, Ia.
Ph. B. 1895, Grinnell College	
Smith, Louberta J.....	Lincoln
B. Sc. 1910, Kansas State Agricultural College	
Smith, Walter Irvine.....	College View
A. B. 1911, Union College	
Snell, Hazel Erost.....	Lincoln
A. B. 1912, The University of Nebraska	
Sowell, James William.....	Omaha
A. B. 1900, A. M. 1903, Gallaudet College	
Spaulding, Thankful Elizabeth.....	Lincoln
A. B. 1911, The University of Nebraska	

THE UNIVERSITY OF NEBRASKA

Stenger, Cecilia Caroline	A. B. 1913, The University of Nebraska	Columbus
Stevens, Leslie Clark	A. B. 1913, Nebraska Wesleyan University	University Place
Stuff, Frederick Ames	A. B. 1893, Nebraska Wesleyan University; A. M. 1900, The University of Nebraska; Litt. D. 1911, Nebraska Wesleyan University	Lincoln
Taylor, Lola Mulnix	A. B. 1898, Battle Creek College	Lincoln
Tremain, Mary Adell	B. Sc. 1881, A. M. 1890, The University of Nebraska	Lincoln
Unruh, George Overton	B. Sc. 1913, The University of Nebraska	Blair
Wagey, Pearl Alice	A. B. 1913, The University of Nebraska	Cambridge
Walker, Louisa Viola	A. B. 1914, The University of Nebraska	Lincoln
Wallace, Helen Margaret	A. B. 1913, The University of Nebraska	Lincoln
Warner, Esther	A. B. 1912, The University of Nebraska	Lincoln
Weiss, Mollie Louise	A. B. 1898, Union College	College View
Wilke, Charlotte	A. B. 1910, The University of Nebraska	Lincoln
Wilkinson, Constance Wenona	A. B. 1911, Cotner University	Lincoln
Wolfenbarger, Capitola	A. B. 1893, The University of Nebraska	Bethany
Wright, Paul Blaine	A. B. 1906, Nebraska Wesleyan University	University Place
Wyman, Harriet Minerva	A. B. 1914, The University of Nebraska	Lincoln
Yont, Lily	A. B. 1907, The University of Nebraska	Lincoln
Yont, Rose	A. B. 1903, A. M. 1907, The University of Nebraska	Lincoln

1913-1914

ROSTER OF STUDENTS IN THE COLLEGES¹

Standing granted on the basis of

- (1) Baccalaureate Degree, (2) Thirty "Points" (Complete) or Twenty-eight "Points" (Conditional) entrance to the Freshman Year, (3) "Adult Special" registration (At least twenty-one years of age).

Abbreviations

Letters indicate college and figures indicate year.

A—College of Arts and Sciences; CA—College of Agriculture; T—Teachers College; E—College of Engineering; L—College of Law; M—College of Medicine; G—Graduate College; u—Unclassed, or "Adult Special."

Name	College and Year	Home Address
Abbott, Earl Leslie.....	CA 3.....	David City
Abbott, Joyce Haven.....	A 2.....	Grand Island
Aber, Sadie Dunning.....	A 3.....	Lincoln
Ackerman, Arthur William.....	E 2.....	Lincoln
Adair, Irma Esther.....	Au, (S).....	College View
Adams, Lovena Sarah.....	A 1, (S).....	Chambers
Adams, Percy A.....	A 4.....	Lincoln
Aduddell, Howard Franklin.....	Au, (S).....	Cambridge
Agor, Hugh.....	A 4, L 1.....	Omaha
Ahrens, Don Earle.....	E 4.....	Sidney
Aksamit, Agnes Rosalie.....	A 2, (S).....	Crete
Albee, Anna Myrtle.....	Au.....	Lincoln
Alber, John Gottfried.....	G.....	Lincoln
Albert, Fred Craig.....	E 3.....	Columbus
Albright, Edna Jennie.....	A 2, (S).....	Lincoln
Albright, Robert Edwin.....	A 1.....	Lincoln
Alden, Herbert Ralph.....	Mu.....	North Platte
Aldrich, George Stroman.....	L 2.....	Lincoln
Aldrich, Joseph.....	A 4.....	Lincoln
Aldrich, William Edwin.....	A 1.....	Fairmont
Alexander, Bess.....	G, (S).....	Wahoo
Alexander, Mary Charlotte.....	G.....	Lincoln

¹ Immediately following this roster appear the names of students registered primarily in a school or in University Extension work. No name appears on more than one roster. For definition of letters in parentheses, see second roster immediately following.

Alexis, Gerhard Theodore	Au.	Lincoln
Alexis, Oscar Ebenezer	A 1.	Lincoln
Alldritt, Roscoe Vance	Mu.	Lincoln
Allen, Elliott Elsworth	E 1.	Tobias
Allen, Ethel Grace	A 3, T 3.	Geneva
Allen, George Hamilton	E 3.	Lincoln
Allen, George Washington	A 2, (Ex, S).	Rifle, Colo.
Allen, Hazel Marcia	CA 2.	Lincoln
Allen, Jeanne	A 4, T 4.	Valparaiso
Allen, Leonard Elmer	CA 3, (S).	Lincoln
Allen, Louis Baker, Jr.	A 4, L 2.	Lincoln
Allen, Russell Wykoff	A 1.	Lincoln
Allison, J Ned	L 2.	Sterling
Allison, James Everett	E 3.	Hastings
Allyn, Arthur Ernest, Jr.	A 4.	Hastings
Alm, Oscar William	A 1.	Opportunity
Almy, Emory Frederick	A 2.	Greenwood
Althouse, Everett J.	A 1.	Nelson
Altman, Hildur Amelia	Au.	Lincoln
Amack, Russell George	A 1.	Red Cloud
Amerman, Ralph Kenneth	L 3.	St. Joseph, Mo.
Andersen, Emma Nathalia	G.	Ames
Anderson, Albert	A 1.	Omaha
Anderson, Arthur	A 1.	Valley
Anderson, Arthur	CA 2.	Oxford
Anderson, Carl Arthur	A 1, (Ex, S).	Wahoo
Anderson, Charles Henry	E 3.	Genoa
Anderson, Charlotte Geraldine	CA 2.	Lincoln
Anderson, Edith Marie	A 2.	Lincoln
Anderson, Elmer Le Roy	E 4.	Lincoln
Anderson, Elmer William	E 2.	Louisville
Anderson, Ernest Gustaf	CA 3.	Concord
Anderson, Esther Sanfreda	A 3, T 3.	Lincoln
Anderson, Eva Veronica	CA 3, (S).	Lincoln
Anderson, Harriet Fidelia	A 1, (4 yr. Pharmacy)	Genoa
Anderson, Harriette Beatrice	A 2.	St. Paul
Anderson, Kate Magdalena	CA 2.	Lincoln
Anderson, Lee Norman	CA 2.	Lincoln
Anderson, Mabel	CA 1.	Wahoo
Anderson, Mae Mildred	CA 2.	Osceola
Anderson, Mamie	A 2.	Shelby
Anderson, Manuel Lester	Au.	Lincoln
Anderson, Mary Annette	A 3, (S).	Lincoln
Anderson, Mildred Johanna	A 4, (S).	Milford
Anderson, Ralph Earl	A 1.	Genoa
Anderson, Ruby Lydia	Au.	Gothenburg
Anderson, Verna Ruth	A 3, T 3.	Holdrege
Andrew, Raymond Oliver	CA 1.	Table Rock
Andrews, George Gordon	G.	College View
Andrews, Mitchell McCauley	M 1.	College View

Andrews, Raleigh K.....	M 2.....	College View
Angell, Charles James.....	A 2.....	Ulysses
Angell, William Henry.....	E 1, (THS).....	Ulysses
Angle, Florence Bell.....	A 2.....	Lincoln
Anheuser, Julie Marie.....	CA 3, T 3.....	Omaha
Ankeny, Roy Barcroft.....	CA 1.....	Laurel
Antrim, Harriet Grace.....	CA 1.....	Cumberland, Iowa
Aplan, Marie.....	A 1.....	Rushville
Apperson, Catherine LaMaster.....	A 3.....	Lincoln
Apperson, Sarah Virginia.....	A 1.....	Lincoln
Appleman, Bertha Marie.....	CA 1.....	Lincoln
Arehart, Arthur Amos.....	A 1.....	David City
Arendt, Georgia Marie.....	Au.....	Lincoln
Armstrong, Amy Eleanor.....	A 4, (Ex).....	Syracuse
Armstrong, Clarence M.....	CA 2.....	Broken Bow
Armstrong, Glen Albert.....	E 2.....	Lincoln
Armstrong, Pearl Witte.....	A 2.....	Lincoln
Armstrong, Vera Elizabeth.....	CA 4, T 4.....	Lincoln
Arnold, Ethel M.....	A 2.....	Johnstown
Arnold, Frieda Elisabeth.....	G, (S).....	Lincoln
Arnold, Helen Florence.....	Au.....	Lincoln
Arnold, Henry J.....	A 2, (Ex, S).....	Sterling
Arnold, Merton O.....	M 1.....	Palmer
Arnott, Edward.....	CA 2.....	Billings, Mont.
Arterburn, Agnes Arrilda.....	A 2.....	Lincoln
Asendorf, Bernhardt Herman.....	CA 4.....	Lincoln
Ash, Charles Raymond.....	E 1.....	Wayne
Ashby, Fern Lee.....	CA 4, T 4, (S).....	Broken Bow
Ashby, Ruth Cowdrey.....	A 1.....	Fairmont
Ashton, Eva.....	A 2.....	Lincoln
Aten, Bessie.....	A 2, (S).....	University Place
Aten, William Banta.....	M 2.....	University Place
Athan, Edith Gertrude.....	A 3, T 3.....	Tekamah
Athan, Esther Edna.....	A 3.....	Tekamah
Atkins, Mary Elizabeth.....	G.....	University Place
Atwell, Clarence Allen.....	E 4.....	University Place
Atwood, Catharine Parmele.....	A 2.....	Lincoln
Atwood, Ida May.....	Au.....	Lincoln
Aul, William Eugene Adolphus.....	G, (S).....	College View
Austin, Blanche May.....	G.....	Lincoln
Axtell, Marie Emily.....	CA 1.....	Lincoln
Ayres, Vivian Martha.....	A 1.....	Lincoln
Babbitt, Eunice.....	Au.....	North Platte
Babeock, Fred Lawrence.....	A 2.....	Columbus
Babeock, John Powell.....	E 3.....	Columbus
Babeock, Lodicea Anna.....	A 1, (FA).....	Scotts Bluff
Babeock, Vale Oressa.....	A 2.....	Lincoln
Babel, Inez Olive.....	A 1, (S).....	Wood River
Babson, Paul Talbot.....	E 1.....	Seward
Bachoritch, Cecil James.....	A 4.....	Fairbury

Back, Winnifred Bishop	CA 1	Gothenburg
Backlund, Francis Victor	E 2	Stromsburg
Bader, Edward William Sevadanam	A 1	Lincoln
Baehr, Max Joseph	A 1	St. Paul
Bailey, Charles Henry	E 2	Wymore
Bailey, Donald Marion	A 1	Lincoln
Bailey, Fuller Bryan	A 1, (THS)	Imperial
Bailey, James Kay	A 1	Lincoln
Bailey, Veda Aseinith	CA 2, (S)	Lincoln
Baird, Mattie Jane	Au.	Fairbury
Baird, Sarah Adella	Au.	Lincoln
Baker, Earl Elias	M 2	Havelock
Baker, Esther Lauretta	A 1	Hooper
Baker, Idamaye	CA 2	Lincoln
Baker, Irving Clinton	E 2	Lincoln
Baker, Ruth Quinally	Au.	Lincoln
Baker, Susie Helen	A 4, (S)	Lincoln
Bakewell, Agnes Jessie	A 1, (FA)	Stapleton
Baldwin, Cecile Frances	A 1	Wahoo
Baldwin, Isaac Clarence	Au, (Ex)	Jacksonville, Fla.
Baliman, Richard Eugene	CA 1	Omaha
Balis, Arthur	L 1	Valentine
Ball, Norris Clifford	CA 3	Genoa
Ballah, Arnette Mae	A 1, (FA)	Norfolk
Ballah, Arthur Blaine	A 4, L 2, (SAs, S)	Norfolk
Ballah, Ruth Ocean	A 1, (FA)	Norfolk
Ballard, Grace	Lu	Blair
Ballard, Josephine	CA 2	Lincoln
Ballenger, Gail Davis	Au, (THS)	Lincoln
Balster, Robert Norman	CA 1	Utica
Banerji, Indu Pfakas	A 4	Caleutta, India
Bangs, Gertrude	A 1	Lincoln
Bantin, Elmer William	A 2	Omaha
Barnebey, Zella Frances	A 1, (S)	Cairo
Barnes, Glenn Hambel	A 3, L 1	Fairbury
Barnes, Lloyd Andress	E 3	Lincoln
Barns, Donald Grove	A 3	Albion
Barns, Viola Florence	G	Albion
Barnum, Earl Harold	Mu.	Aurora
Baros, Eunice Augustine	A 3	Lincoln
Barry, Augustus Charles	M 3	Maywood
Barry, John Patriek	Mu.	Wahoo
Barstow, Louise Whittlesey	A 1, (S)	Crete
Barta, James C	Eu.	Omaha
Bartlett, Agness Pauline	A 3, T 3	Lincoln
Barton, Clyde Turner	L 2	Pawnee City
Barton, John Leslie	A 1	Sundance, Wyo.
Bastron, Carl Heinrich	M 2, (S)	Lincoln
Basye, George Lee	L 3	Alliance
ates, Cleo Walter	A 2	Verdigre

Bates, Ford E.....	E 4.....	Springfield
Bates, Laura Emma.....	A 1.....	Overton
Bates, Ruth Mary.....	G, (S).....	Lincoln
Bath, Minnie E.....	CAu.....	Auburn
Bauman, William Harry.....	E 3.....	Omaha
Bayley, Bessie Lillian.....	A 2.....	Gibbon
Beach, Lillian May.....	A 1, (FA, S).....	University Place
Beach, Mabeth Margaret.....	A 1.....	Lincoln
Beach, Vinnie.....	Au.....	Lincoln
Beal, Margaret Irene.....	CA 2.....	Red Cloud
Beard, Emma Elizabeth.....	A 1.....	Lincoln
Beard, John Cleveland.....	A 3.....	Lincoln
Beardslee, Elbert Clarence.....	A 1, (Ex, S).....	Lexington
Beattie, Ethel Blanche.....	G.....	Lincoln
Beaumont, Evelyn Nash.....	A 3.....	Lincoln
Beaumont, Gladys Norton.....	CA 2.....	Lincoln
Beck, Benjamin Harlow.....	A 3, (S).....	University Place
Beck, Catherine Octavia.....	A 1, (FA).....	Lincoln
Beck, Charles Gordon.....	CA 4.....	Peru
Beck, Charles Wesley.....	E 4.....	Edgar
Beck, Elfred.....	A 1.....	Lincoln
Beck, Foster Merton.....	A 3.....	Lincoln
Beck, Gerald Henderson.....	A 1.....	Gibbon
Beck, Hazel Caroline.....	A 3.....	Peru
Beck, Iva Leota.....	Au.....	Lincoln
Beck, Paul Henry.....	G, (Ex, S).....	Beatrice
Becker, Wesley Charles.....	G.....	Salt Lake City, Utah
Bedwell, Louise.....	A 3.....	Omaha
Bee, Lois Grace.....	A 3.....	Fairbury
Beede, Clark Eli.....	A 2, (S).....	David City
Beesley, Marguerite.....	A 2.....	Ericson
Begley, Daniel Frank.....	Lu.....	Lincoln
Behle, Bertha Amelia.....	G, (S).....	Osceola
Behling, Eda Christina.....	A 1.....	York
Bell, Henry.....	G.....	Denison, Ia.
Benda, Theodore.....	G.....	Shelby
Benesch, Ella Marie.....	Au, (S).....	Octavia
Bengtson, Esther Wilhelmina.....	Au, (S).....	Wausa
Bengtson, Nels August.....	G.....	Lincoln
Benner, Henry John.....	E 2.....	Scribner
Bennett, Claudius Edmund.....	G.....	Provo, Utah
Bennett, Esther Louise.....	CA 3, T 3.....	Lincoln
Bennison, Samuel.....	CA 1.....	Lincoln
Benson, Lawrence Everett.....	A 1.....	Minden
Bentz, Chester Ross.....	E 1.....	Kenesaw
Bentz, Ethel Fern.....	CA 1.....	Fairfield
Berg, Vernon Spencer.....	A 1.....	Lincoln
Berger, Stuart Albert.....	CA 2.....	South Omaha
Berggren, Mabel Josephine.....	A 1, (FA).....	Lincoln
Bergman, David Lowell.....	A 3.....	Verona

Berquist, George Martin	E 3	Loomis
Berry, Maud	Au	Tekamah
Berryman, Lloyd Monroe	A 1	Cozad
Bethune, Anna Helen	Au	Lincoln
Beynon, Ira David	A 1	Lincoln
Biba, William August	E 2	Exeter
Bicknell, Effa Maie	A 1, (S)	Lincoln
Biddlecom, Leonard Skinner	Mu	Havelock
Bidgood, Orpha	CA 2, A 2	Woodlake
Bigelow, Francis Dana	CA 1	Stuart
Bingaman, Ruth	A 1	Malvern, Ia.
Bintz, Arthur Carl	A 1	Lincoln
Birkner, Gisela Julia	A 4, T 4	Lincoln
Bishop, Blanche Lucile	A 1	Schell City, Mo.
Bishop, Frieda Harriet	CA 2	Superior
Biskie, Herman Albert	CA 1	Hastings
Bissell, Edna Erma	G	Dexter, Ia.
Bixby, Alice Lorena	A 3, T 3	Lincoln
Bixby, Max	A 1	Hardy
Bixby, Rex V	A 3 (4 yr. Pharmacy)	Hardy
Bixby, Winfred Henry	E 2, (S)	Lincoln
Bjorkman, Roy Hampurs	Lu	Lincoln
Black, Evelyn	CA 1	Lincoln
Black, Glen W	E 1	Rushville
Blackman, Volney Harding	CA 1	Beaver City
Blackstone, Luella	A 2, T 2	Tekamah
Blandin, Alma Clare	A 4, T 4	Western
Blomenkamp, Alvina Marie	A 3, (S)	Hastings
Blomenkamp, August Ernest Henry	G, (S)	Lincoln
Blomenkamp, Ida Florence	A 3, T 3, (S)	Hastings
Bloomstrand, Harry Kasper	A 1	Aurora
Blotz, Frank Barnebas	A 1	Randolph
Blotz, George Arlington	CA 1	Albion
Blunk, Adolf	E 1	Grand Island
Bock, Fred Arthur	A 1	Omaha
Bocken, Frank Edward	M 1, (S)	Harlan, O.
Boehr, John Wesley	G, (Ex)	Fairfield
Boesche, Gladys Golden	Au	Omaha
Bogen, Jennie Deana Logasa	Au	Lincoln
Boggs, Charlotte Rose	A 1	Lincoln
Boggs, James William	CA 1, (THS)	Lincoln
Bolejack, Paulina Belle	A 3	Dawson
Bolender, Melvin Cooper	E 1	Lincoln
Bolton, Dan W	A 1	Lincoln
Bolton, Marybelle	A 1	Lincoln
Bong, Elmer Victor	CA 1	Havelock
Bonnell, Fay	CAu	Lincoln
Bonnell, Valeria	A 4, T 4	Lincoln
Bonnell, Winifred Blanche	Au	Lincoln
Booher, Margaret Elizabeth	Au	Lincoln

Borchert, Ernest Frank.....	E 1.....	Holdrege
Bordner, Beulah Leona.....	CA 1, (SA).....	Stanton
Borg, Eleanor Christene.....	Au, (Ex).....	Concord
Borrowman, George.....	G.....	Lincoln
Bossard, Roy Layton.....	E 1.....	Papillion
Bostik, Edward Joseph.....	Mu, E 1.....	Belleville, Kans.
Bostrom, Gustaf Alfred.....	A 3 (4 yr. Pharmacy).....	Lincoln
Bouchal, Louis James.....	Au.....	Wilber
Boukather, John M.....	L 1.....	Lincoln
Boutelle, Olive Vesta Fern.....	Au, (S).....	College View
Bowden, Ruth Hazel.....	CA 2.....	Wisner
Bowen, Bess M.....	Au, (FA, S).....	Lincoln
Bowen, Harold Linwood.....	G.....	So. Omaha
Bowen, John Stevenson.....	CA 2.....	Omaha
Bowers, Nelson James.....	CA 1.....	Lincoln
Bowker, Leah.....	CA 3.....	Orchard
Bowman, David Henry.....	A 1.....	Omaha
Boyd, Ivel Moody.....	L 1.....	Belleville, Kans.
Boyer, Emile James.....	E 2.....	Gering
Boyer, Susie Estelle.....	G.....	Tarkio, Mo.
Boyles, Flora Rose.....	CA 3.....	Alvo
Boynton, Robert Slothower.....	E 4, (S).....	Adams
Brace, Orval Lester.....	A 3.....	Lincoln
Brainerd, Helen May.....	A 1, (FA).....	Hebron
Brande, Grace.....	A 1.....	Pierce
Brandeen, Esther Lena.....	Au, (S).....	Waverly
Brandt, Ruth Gertrude.....	Au.....	Unadilla
Branigan, John.....	CA 3.....	Falls City
Branigan, Marguerite Mary.....	A 4, T 4, (Ex).....	Norfolk
Bratt, Alfred Dewey.....	A 1.....	Bennet
Brecks, Olga Elfreda.....	A 3, T 3.....	Arapahoe
Breese, Clarice Lina.....	A 3, T 3.....	Lincoln
Brethouwer, Berend John.....	G.....	Normal
Brewster, Beulah.....	CA3, T3.....	Beatrice
Brian, Emily Loretto.....	CA 1.....	Lincoln
Bricka, Margarette Elizabeth.....	A 1.....	Lincoln
Bridenbaugh, Jessie Margaret.....	A 1.....	Dakota City
Briggs, Helen.....	CA 3.....	Fremont
Briggs, Lena.....	A 4, T 4, (S).....	Kearney
Brigham, Rae James.....	Mu.....	Lincoln
Brittain, James Elwyn.....	A 4, L 1.....	Wayne
Brix, Aage Emil.....	M 1.....	Lexington
Broeker, Hugo.....	A 4, (S).....	Lincoln
Brokaw, Eva June.....	A 4, T 4, (S).....	Bethany
Brokaw, Frank Hastings, Jr.....	Au, (S).....	Bethany
Brokaw, William H.....	A 1, (Ex, S).....	Seward
Broman, Martin Robert.....	M 2.....	Lincoln
Brooks, Alice Frances.....	A 2, (FA).....	Lincoln
Brooks, Harry Glenn.....	E 2.....	Lincoln
Brooks, James Forrest.....	CA 2.....	Lincoln

Brother, George Howard	G	Beatrice
Brouhard, James Schuyler	E 1	Beaver City
Brouse, Edgar Merl	CA 1	Stratton
Brown, Charles Neil	A 4, (S)	Lincoln
Brown, Edith Marian	A 2	Sargent
Brown, Edna May	A 4	Lincoln
Brown, Elisabeth Allen	Au, (FA)	Lincoln
Brown, Florence Matilda	A 1, (FA)	Holdrege
Brown, Gilbert Silas	Lu, Au, (S)	Lincoln
Brown, Harley Franklin	A 1	Lincoln
Brown, Jennie Broughton	Au, (S)	Lincoln
Brown, Joseph Edwin	E 4	Rushville
Brown, Louis Clark	E 2	Lincoln
Brown, Odes Franklin	E 2	Chester
Brown, Royal Allen	CA 4, (Ex, S)	Hitchcock, Okla.
Brown, Ruth Bunnie	CAu	Rushville
Brown, William Wallace	CA 1	Clarks
Browne, Jesse Paul	A 2 (4 yr. Pharmacy)	Benkelman
Brownell, Louise Barker	A 2	Lincoln
Brownell, Ruth Miller	A 4	Lincoln
Brundage, Percy Alan	A 1	Tecumseh
Bryan, Edith Reubie	A 2	Wichita, Kans.
Bryan, Edna Elizabeth	G	Lincoln
Bryan, Silas Millard	A 3	Lincoln
Bryson, Albert Edward, Jr.	A 1	Fullerton
Bucher, Ella Columbia	A 1, (FA)	Columbus
Buck, Miriam Patterson	A 4, T 4	Superior
Buckles, Emmett Joseph	Au, (S)	Havelock
Buckner, Arthur Warner	A 4	Lincoln
Buckner, Marie Edna Anstine	Au	Lincoln
Buerstetta, Blanche	Au	Lincoln
Buerstetta, Orville Andrew	A 2	Lincoln
Buffington, Florence Fern	A 2	Fremont
Buis, Albertus Henry	A 2	Hickman
Bullock, Theodore Tunison	G	Lincoln
Bungor, Nels Calvin	G, (S)	College View
Bunt, Gladys Priscilla	A 4, T 4	Fremont
Bunton, Glenetta Grace	G	University Place
Bunting, Herbert Robins	A 4, (S)	Lincoln
Buol, Paul Albert	E 4	Randolph
Burman, Guy Elmer	A 4	Axtell
Burn, Robert Raymond	CA 4	St. Edward
Burnett, Jerome Benjamin	A 1	Lincoln
Burnett, William Clinton	A 1	Sheridan, Wyo.
Burns, Hazel Flavia	A 3	Lincoln
Burns, Helen Ann	Au	Lincoln
Burns, Hiram Delaney	M 4	Omaha
Burns, Robert H	A 1	Western
Burr, Edwin Marcellus	A 2	Aurora
Burr, George Lawrence	A 3	Aurora

Burr, Maurice Elbert.....	E 3.....	College View
Burrage, Dwight Grafton.....	G.....	Crete
Burroughs, Jean.....	A 1.....	University Place
Burrows, Florence Lucile.....	A 3, (S).....	Lincoln
Burrows, Margaret.....	A 4, (S).....	Lincoln
Burton, Irvin J.....	Mu, A 1.....	Friend
Busche, Elsie Elizabeth.....	CAu, Au.....	Seward
Bush, Guy Louis.....	Au.....	Bethany
Bushnell, Herbert Martin, Jr.....	L 3.....	Lincoln
Busk, Blanche Marie.....	A 1.....	Omaha
Busse, Kathryn Marie.....	A 1.....	Decatur
Butler, Carey Pharaba May.....	A 3.....	Beaver City
Butler, Cecil Letitia Bell.....	A 4.....	Beaver City
Butler, Helen Condon.....	A 4.....	Lincoln
Butler, Mildred Harriet.....	A 4.....	Superior
Butter, John Gambell.....	CA 1.....	Florence
Butz, Fred T.....	Mu, (THS).....	Talmage
Buzzell, Dow Alan.....	E 2.....	Firth
Byerly, Virginia Lee.....	A 4.....	Franklin
Byrne, James Joseph.....	A 3, T 3.....	Lincoln
Byron, Myrtle Edna.....	A 2.....	Gothenburg
Cady, Richey Earl.....	A 4, (Ex, S).....	Lincoln
Cales, Thomas Calvin.....	E 2.....	Wymore
Caley, John Lorin.....	A 1.....	Sterling
Calver, Ben H.....	E 3, (Ex, S).....	Ainsworth
Cameron, Anna Margharett.....	A 3, T 3.....	Lincoln
Cameron, Mary Helen.....	G.....	Lincoln
Cameron, Robert Fairrie.....	E 2.....	Lincoln
Camp, Earl Fred.....	A 1.....	Republican City
Camp, Mary Eunice.....	A 1.....	Lincoln
Campbell, Frank Clark.....	E 3.....	Estlin, Sask.
Campbell, Harold Ray.....	CA 2.....	Osceola
Campbell, Henry William.....	A 1.....	Elgin
Campbell, Juanita Lucille.....	A 1.....	Brock
Campbell, Phil Brooks.....	CA 1.....	Osceola
Canaday, Ralph Oliver.....	A 3.....	Minden
Canfield, Sarah Wright.....	Au, (Ex, S).....	Tecumseh
Cannell, Paul John.....	E 4.....	Lincoln
Caplan, Philip Melvin.....	CA 1.....	Kearney
Capwell, Joseph Alfred.....	L 3.....	Elmwood
Capwell, Norman Edward.....	E 1.....	Elmwood
Carlson, Carlisle Robert.....	CA 1.....	Omaha
Carlson, Frank Emmanuel.....	A 4.....	Lincoln
Carlson, George Ludwick.....	Mu.....	Ong
Carlson, Homer Lionel.....	A 1.....	Omaha
Carlson, Knute Emil.....	A 3.....	Wahoo
Carns, Dorothy Jane.....	A 2.....	Lincoln
Carns, Helen Mitchell.....	G.....	Lincoln
Carpenter, Blanche Etta.....	A 4, T 4, (S).....	Lincoln
Carpenter, Ray Wilford.....	CA 1.....	Fontanelle

Carr, Edward Everett	Au	Beaver City
Carroll, Charles Eden	G, (S)	Lincoln
Carroll, Helen	CA 1	Fremont
Carroll, John Andrew	A 3	Fremont
Carroll, Lavinia Ruth	A 3, T 3	Lincoln
Carson, Norma Vere	A 3	Lincoln
Cast, Gotthilf Oliver	CA 1	Lincoln
Castile, Pearl Ida	A2, (S)	Stromsburg
Cathcart, Martha Ruth	A 1, (Ex, S)	Beatrice
Cather, John Esten	E 1	Red Cloud
Cathey, Cameron	E 3	Weeping Water
Cavett, Yale Hatch	L 1	Phillips
Caviness, Anson Lorenzo	G, (S)	Fairbury
Chace, Arthur Charles	A 2	Stanton
Chace, Ethel Maude	A 2	Stanton
Chace, Lou Belle	Au, (FA)	Stanton
Chain, Leo Williams	A 1	Harvard
Challis, Mary A	A 2	Lincoln
Chamberlain, Lorenzo Warner	Lu	Lincoln
Chamberlin, Berlin Guy	A 3	Blue Springs
Chamberlin, Samuel Glenn	CA 4	Beatrice
Chamberlin, William	A 4	Blue Springs
Chambers, Guy Cleveland	L 1	Sidney
Chapin, Donald Abner	CA 1	Lincoln
Chapin, Eunice Spalding	A 3, (S)	Lincoln
Chapin, Grace Mildred	CA 1	Oconee
Chapin, Lillian Farnum	Au	Lincoln
Chapin, Mary Leonard	A 4, (S)	Lincoln
Chapin, Mildred Marie	A 1	Lincoln
Chapin, William Calvin	E 2	University Place
Chapman, Erma	A 1	Aurora
Chapman, Howard Rufus	G, (S)	Lincoln
Chapman, Lewis Carl	A 2	Tecumseh
Chapman, Lille Forrest	A 1	Cozad
Chappell, Elwood Blake	A 3, L 1	Osmond
Chappell, James Robinson	A 2	Minden
Chappell, Ralph Heaton	CA 1	Ainsworth
Charlesworth, Lloyd Warren	L 3	Omaha
Chase, Floyd Josiah	CA 4	Pawnee City
Chase, Janet	CA 1	Lincoln
Chase, Leon Wilson	G	Lincoln
Chase, Linus	CA 1	Pawnee City
Chatt, Leo Orville	L 1	Enid, Okla.
Cheney, Walter Lynn	G	Chardon, Ohio
Cherny, Alice Magdalene	CA 1	North Bend
Cherny, Leon John	E 1	North Bend
Chez, Frances Graves	A 3	Wahoo
Chittick, Martin Burton	A 2 (2 yr. Pharmacy)	Stuart
Chrestensen, Fern Marie	A 2, (S)	Lincoln
Chrisman, Alta Lucile	A 1, (FA, THS)	Lincoln

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Christensen, Emma Dorcas.....	A 2, (S).....	Omaha
Christie, James Arthur.....	Eu, (S).....	Omaha
Church, Vivian Marie.....	A 1.....	Sheridan, Wyo.
Claar, Charles Edward.....	A3, (S).....	Petersburg
Claar, Stewart Banes.....	A 1.....	Lincoln
Clancy, Fleta May.....	A 1, (FA).....	Beatrice
Clark, Clarence Leon.....	L 3.....	Lincoln
Clark, Della Marie.....	A 3.....	University Place
Clark, Ellen Elizabeth.....	G.....	Lincoln
Clark, Ethel Cecelia.....	Au.....	Lincoln
Clark, Grace Maria.....	G.....	Lincoln
Clark, Hazel Palmer.....	CA 2.....	Omaha
Clark, Leonard George.....	E 1.....	St. Edward
Clark, Letta May.....	G.....	University Place
Clark, McKinley Frasier.....	E 1.....	Lincoln
Clark, Mary Charlotte.....	A 2, (S).....	Jackson
Clark, Maurice Charles.....	A 1.....	South Omaha
Clark, Russell Franklin.....	A 3.....	South Omaha
Clark, Stuart Kenneth.....	E 3.....	Lincoln
Claussen, Christina Mary.....	A 4, T 4.....	Beatrice
Claybaugh, Joseph Harrison.....	G, (S).....	Valley
Clayton, Mabel Stephenson.....	A2, (S).....	Lincoln
Clayton, Mae Stephenson.....	A 2, (S).....	Lincoln
Cleaver, Vivien Beatrice.....	A 4, T 4.....	Lincoln
Cleland, Margaret.....	Au.....	Lincoln
Clements, Sanford Lynn.....	CAu, (S).....	Elmwood
Clinton, Hildegard.....	A 1.....	North Platte
Cloe, Rhea Lucile.....	Au, (Ex, S).....	Lincoln
Clopine, Logan Alexander.....	Mu.....	Franklin
Cloud, Rowland Newkirk.....	A 1, (S).....	Lincoln
Clymer, Anna Bell.....	A 1, (FA, S).....	Lincoln
Coates, Fern Marie.....	CA 1.....	Ohioa
Cobb, Leon William.....	G.....	College View
Cobbey, Paul Schell.....	A 1.....	Beatrice
Coe, Louise.....	A 1.....	Nebraska City
Coe, Lulu Mae.....	A 2.....	Omaha
Coffee, Guy Hymen.....	CA 2.....	Chadron
Cogil, Annie Minnie Theodosia.....	Au, (S).....	Lincoln
Colbert, Fred James.....	M 2.....	Weeping Water
Cole, Dana Finley.....	A 3.....	Lincoln
Cole, Frank Trimmer.....	G, (S).....	Lincoln
Cole, Sara Raymond.....	A 1.....	Omaha
Colegrove, Ruth Albon.....	Au.....	Lincoln
Coleman, Arthur Bert.....	A 4.....	Lincoln
Coleman, Frederick David.....	A 1.....	Ulysses
Coleman, William Henry.....	G, (S).....	Bertrand
Collins, Charles Henry.....	E 3.....	Collins
Collins, Charles Phil.....	Mu.....	Pine View, Mont.
Collins, Floyd MelRoy.....	A 1.....	Ord
Collins, Mary Agnes.....	Au.....	Belleville, Kans.

Collins, Raymond Jean.....	A 1.....	Lincoln
Colman, Howard Notson.....	A 3.....	Seward
Coman, Carrie Morna.....	A 2.....	Fremont
Combs, Zada Nellie.....	A 1.....	Billings, Mont.
Comerford, Charlotte Juliet.....	Au.....	Lincoln
Compton, Earl Victor.....	L 2.....	Cedar Rapids
Condra, Mary Cordelia.....	A 3, (Ex, S).....	Lincoln
Cone, Edith Mae.....	CA 2, (S).....	Lincoln
Cone, Katherine Elisabeth.....	CA 3, (S).....	Ashland
Cone, Owen Wendle.....	A 4, (4 yr. Pharmacy).....	Lincoln
Cone, William Alexander.....	E 1.....	Ashland
Conner, Charles Clay.....	A 2.....	Lincoln
Conrad, Mabel Cooper.....	A 1, (S).....	Cotesfield
Cook, Carleton Harris.....	L 1.....	Malvern, Ia.
Cook, Edna Verlie Zimmerman.....	Au.....	Lincoln
Cook, Eston Henry.....	E 2.....	Buda
Cook, Harold Charles.....	Mu.....	Lincoln
Cook, Kenneth Rice.....	L 1.....	Malvern, Ia.
Cook, William Harvey.....	E 1.....	Broken Bow
Cooley, Frieda Florence.....	A 1.....	Lincoln
Coons, Franklin Wayne.....	G, A 4, (S, Ex).....	Lincoln
Coons, Isabel May.....	A 3.....	Lincoln
Coons, Laura Anna Pettijohn.....	G.....	Lincoln
Cooper, Albert Lloyd.....	A 2.....	Fairbury
Cooper, Frank Cornell.....	E 3.....	Lincoln
Cooper, George Lewis.....	Au.....	Lincoln
Cooper, Isaac Stanley, Jr.....	L 1.....	Aurora
Cooper, Jessie.....	G.....	Lincoln
Cooper, Lucile Estelle.....	A 1, (S).....	Hooper
Copeland, Fred Smith.....	G, (S).....	Douglas
Corey, Harold Horace.....	A 1.....	Lincoln
Cornell, Clare Brown.....	G.....	Lincoln
Cornell, Edith D.....	A 3, (S).....	Lincoln
Corns, Mamie Ellen.....	A 2.....	Syracuse
Correll, Mabel Leona.....	A 4, T 4.....	Cambridge
Costelloe, Nora Marie.....	A 3, T 3, (S).....	Alexandria
Cotton, Harry Edwin.....	E 4.....	Kearney
Coulter, Clara Idella.....	G.....	Wymore
Coulter, Victor.....	Mu.....	Wymore
Council, Myrle.....	A 1, (S).....	Holdrege
Coupland, William Cressey.....	E 1.....	Elgin
Cover, Effie.....	L 1.....	Cozad
Covert, Albert Jackson.....	CA 1.....	Lincoln
Covey, George Worthington.....	G, (S).....	College View
Cowan, Harrison Thomas.....	A 1, (S).....	Lincoln
Cowan, Homer Reid.....	CA 1.....	Table Rock
Cowan, Nettie M.....	Au.....	Yates Center, Kans.
Cowen, Charles Edward.....	G, (S).....	Clay Center
Cowley, Minnie Edith.....	A 1, (S).....	Marquette
Cox, Emily Lucy.....	Au.....	York

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Coy, Ramona Ortegna.....	A 4.....	Farragut, Ia.
Cozier, Hazel Ruth.....	Au, (FA).....	University Place
Crabtree, Varena Amy.....	CA 1.....	Bethany
Craig, Ida Belle.....	A 3, T 3.....	Chambers
Craig, Kenneth Young.....	E 1.....	Omaha
Crane, Jay Jarves.....	A 2.....	Lincoln
Craven, George Irl.....	A 1.....	Lincoln
Crawford, George Ewing.....	G.....	Wood River
Crawford, Josiah Alonzo.....	L 1, (Ex).....	Bruning
Crawford, Mary Catherine.....	CAu, (S).....	Dunbar
Crawford, Robert Platt.....	A 2, (S).....	Lincoln
Crews, Flora Ford.....	Au.....	Lincoln
Critchfield, Max.....	E 1.....	Lincoln
Crittenden, Cornelia Williams.....	A 1.....	Lincoln
Cross, Lyman Goodrich.....	A 3, (S).....	Lincoln
Crowley, Edward Xavier.....	Au.....	Lincoln
Crozier, Grace Leal.....	G, (S).....	Osceola
Cuba, Mildred Elizabeth.....	A 3, T 3.....	Schuyler
Cultra, Carrie Eunice.....	A 4, T 4.....	Lincoln
Cultra, George McClave.....	A 1.....	Lincoln
Cummings, Louella.....	A 4.....	Beatrice
Cummins, Mildred Louise.....	A 3, T 3.....	Plattsmouth
Curley, Frank L.....	CA 3, (S).....	Blair
Currens, Frederick Hawley.....	G, (S).....	Omaha
Currier, Helen Luetta.....	CAu.....	University Place
Curti, Ralph Elmer.....	M 2.....	South Omaha
Curtis, Malcolm Maurice.....	A 1.....	Rushville
Curtiss, Herbert Dewey.....	L 2.....	Bassett
Cusack, Alice Mattie.....	A 4, (S).....	North Bend
Cusack, Marie Isabel.....	A 2.....	North Bend
Cutright, John Leo.....	L 3.....	Lincoln
Daboll, David Arthur.....	CA 2.....	Chadron
Daboll, Flora Annette.....	Au.....	Chadron
Dacken, Victor R.....	A 2.....	Lincoln
Dahl, Louis Albert.....	Au, (S).....	College View
Dahlstrom, August Henry.....	A 4, (Ex, S).....	Lincoln
Dahnke, Edward Julius.....	A 3, T 3.....	Stratton
Dahnke, William Charles.....	A 2.....	Stratton
Dailey, Edgar Ambrose.....	E 1.....	Wahoo
Daily, Sutton James.....	Mu.....	Tobias
Dale, Ben Charles.....	E 2.....	Hartington
Dale, Carl Core.....	A 1.....	Greenwood
Dale, Ernest Edward.....	G, A 4, (S).....	Greenwood
Dally, Claude Franklin.....	A 2.....	Bellwood
Dalton, Nona Catherine.....	A 1, (FA).....	Lincoln
Dana, Gladys Elizabeth.....	A 2, (FA).....	Lincoln
Daniels, Florence Alice.....	Au.....	Bancroft
Daniels, Mabel Cassie.....	CA 4.....	Bancroft
Daniels, Madge Lorissa.....	A 1.....	Ord
Danly, Roy Howard.....	CA 4.....	Axtell

Davidson, Beulah Elizabeth.....	A 3.....	Lincoln
Davidson, Jay Brownlee.....	G.....	Ames, Iowa
Davis, Celia Grace.....	G.....	Lincoln
Davis, Dorothy D.....	A 1.....	Lincoln
Davis, Elliott Regester.....	CAu, (Ex).....	Lincoln
Davis, Gertrude Margurette.....	CAu.....	Tecumseh
Davis, Guy Russell.....	G, (S).....	Lincoln
Davis, John Calvin, Jr.....	A 4, M 1.....	Omaha
Davis, John Thomas.....	Au.....	Lincoln
Davis, Kenneth Samuel.....	A 2.....	Genoa
Davis, Mary Jane.....	CA 3, T 3.....	Pawnee City
Davis, Mildred Marguerite.....	A 3, T 3.....	Lincoln
Davis, Phoebe Dorothy.....	Au.....	Ashland
Davis, Robert Lesley.....	Au.....	Lincoln
Davis, Ruth Janette.....	A 4.....	Lincoln
Davison, Helen.....	A 2, (S).....	Lincoln
Dawson, Ralph Ward.....	G.....	Lincoln
Dawson, Reed Barnes.....	A 4.....	Lincoln
Day, Elsie.....	G, (S).....	Lincoln
Dazey, George Kendal.....	Au, (S).....	College View
Deal, William Floyd.....	A 1.....	St. Francis. Kans.
Dean, Paul Herbert.....	CA 2.....	Broken Bow
Deaver, William Henry.....	A 4, (S).....	Gilead
De Bardeleben, John Arthur.....	L 1.....	Lincoln
Debel, Anders Christian.....	A 1.....	Blair
Debel, Niels Henriksen.....	G.....	Blair
DeBord, Clarence Elmer.....	A 3, T 3.....	Roca
DeBord, Helen Iva.....	CA 1.....	Roca
DeCou, Richard Cary.....	E 3.....	Lincoln
Deering, John Stewart.....	CA 1.....	Sutton
Deffer, Bessie Mae.....	A 2, (Ex).....	Fairbury
De Lamatre, Harry Clayton.....	A 4, L 2.....	Omaha
De Lamatre, Howard William.....	CA 1.....	Omaha
Delano, Clarissa Rose.....	A 2, (S).....	Lincoln
De Long, Alton Harrison.....	CA 4, (S).....	Hartington
Delzell, William Robert.....	A 3.....	Lincoln
Delzell, Wilson Solomon.....	L 1.....	Lincoln
Delzell, Winne Elizabeth.....	A 4, (S).....	Lincoln
De Maranville, Irene.....	A 1.....	Ravenna
Demel, Christian William.....	L 3.....	Central City
Deming, George Warren.....	CA 2, (THS).....	Fairmont
Dempster, Clyde Blaine.....	E 1.....	Beatrice
Denman, Kate Harriet.....	A 1.....	Lincoln
Dennis, Eugenie Lucile.....	A 1.....	Omaha
Dennis, Paul Morris.....	L 1.....	Lincoln
Denny, Glaideth Gainevere.....	G.....	Lincoln
Dern, Karl Louis.....	Au, (S).....	Stanton
Derry, Guy Craig.....	L 2.....	Anoka
Detwiler, Bertha May.....	Au.....	Raymond
Deweese, Lloyd Elmo.....	L 1.....	Lincoln

Dexter, Jennie Lydia.....	A 3.....	Clarks
Dick, Ernest Delbert.....	CAu, (S).....	College View
Dick, Robert Payne.....	CA 3.....	North Platte
Dickey, Elizabeth McKinley.....	Au, (S).....	Newcastle
Dickinson, Hester Irene.....	CA 1.....	Lincoln
Dickinson, Zenas Clark.....	A 4.....	Lincoln
Dickson, Lois Marietta.....	A 4.....	Lincoln
Dickson, Marion Louis.....	E 1.....	Plattsmouth
Diers, Harold Mentzel.....	A 4, L 1.....	Madison
Dinsmore, Archibald Hughes.....	A 3.....	Lincoln
Dinsmore, Francis Elmer.....	G.....	Lincoln
Dixon, Clair Catherine.....	A 2.....	Clarks
Dobson, Arthur Allan.....	L 1.....	Lincoln
Dodds, Clara Rawson.....	A 2.....	Broken Bow
Dodds, Theodora E.....	A 2, (FA).....	Beatrice
Dodds, Winnifred.....	A 1.....	Beatrice
Dolan, Warren Edgar.....	E 3.....	Arlington
Dominy, Gladys E.....	A 2.....	Hardy
Donaldson, James Cook.....	G, (S).....	Lincoln
Donifelser, Edna Zelma.....	A 3.....	Lincoln
Donley, Claude Evland.....	A 1.....	Lincoln
Donovan, Donald Dale.....	Mu.....	Valentine
Doolittle, Warren Andrew.....	CA 2.....	North Platte
Dore, Ruth Elizabeth.....	M 1.....	Normal
Dorland, Frederica Ada.....	A 1, (S).....	Lincoln
Dorland, Henrietta Adell.....	CA 1.....	Aurora
Dorwart, Yule Wallace.....	Mu.....	McCook
Doudna, Beulah Crary.....	CA 1.....	Guide Rock
Douglass, Earl Bruce.....	E 2.....	Lincoln
Douthett, Myrtle Leona.....	A 2.....	Overton
Dow, Mabel Elizabeth.....	A 4, (Ex, S).....	Miltonvale, Kans.
Downing, Bernice.....	A 1.....	Lincoln
Downing, Jessie Francis.....	A 2.....	Rising City
Downing, Lucile M.....	A 4, T 4.....	Kearney
Doyle, Edwin Eugene.....	A 1.....	Lincoln
Doyle, Elizabeth Ann Marie.....	A 1.....	Lincoln
Doyle, Louis Niven.....	A 3, T 3, (S).....	Lincoln
Doyle, Louis Raymond.....	A 1.....	Lincoln
Drake, Nellie Boyd.....	G.....	Broken Bow
Drake, Robert James.....	A 4, (S).....	Lincoln
Draper, Elton Worden.....	Mu.....	Alliance
Dredla, Thomas J.....	L 2.....	Crete
Dresher, William Paul.....	E 3.....	Lincoln
Drewing, Clyde Jacob.....	A 2.....	Lincoln
Drexel, John Harte.....	A 1.....	Omaha
Driftmier, Bertha Marie.....	A 1.....	Lincoln
Driftmier, Rosa Margaret.....	A 3, (Ex).....	Clarinda, Ia.
Driscoll, John Lynn.....	A 4.....	Lincoln
Drummond, Mabel Henrietta.....	A 3, (S).....	Rising City
Due, Ingeborg Emma.....	Au, (S).....	Exeter

Dunaway, Emmett Harrison	A 4	Overton
Dumbolton, Leah Grace	Au	Lincoln
Duncan, Harold Judson	CA 1	Beatrice
Dungan, Donald Kembel	E 1	McCook
Dungan, Edmund Dale	CA 1	Kearney
Dunham, Frances Aileen	G	Lincoln
Dunham, Robert Blumer	A 1	Normal
Dunkin, Dorothy Vestina	A 3, T 3, (S)	Ravenna
Dunkin, Erma Matsler	CA 3, T 3	Ravenna
Dunlap, Elizabeth Caroline	A 1, (S)	Hastings
Dunlap, Merle John	A 1	Lexington
Dunn, Florence	CA 2	Osceola
Dunn, John Audlie	A 1	Benkelman
Dunn, Lester Lloyd	Au	Lincoln
Dunn, Miriam	A 1	Lincoln
Duntz, Ezra Earl	Mu	Lincoln
Dusatko, Louise Anna	A 4, T 4	Clarkson
Dworak, Mayme	G	Lincoln
Dye, Marguerite Lucile	A 2	Lincoln
Dysart, Laberta Rosamond	A 4, T 4	Eagle
Eads, Lucile Blanche	G, (S)	Lincoln
Eakin, Aetna	CA 1	Lincoln
Eason, Alice Faith	CA 3	North Bend
Eason, Lyle	E 1	Marshalltown, Ia.
Eason, Myrtle Lucy	CA 3	North Bend
Eaton, Arleigh M.	A 1	Lincoln
Eaton, Frank M.	CA 3, (S)	Aurora
Eaton, Guy Wallace	Au, (S)	De Witt
Eaton, Roy Wesley	G	Lincoln
Eckerson, William Tracy	L 2	Ravenna
Eckles, Helen Vivian	A 1	Lincoln
Edgren, Verna	A 1, (FA)	Lincoln
Edinborough, Jessie Elizabeth	Au, (FA)	Lincoln
Edison, Oskar Edwin	E 4	Gothenburg
Edmisten, Lloyd L.	A 1	Eddyville
Edmister, Clifford Raymond	L 1	Lincoln
Edmondson, Rachel Elizabeth	A 1	Aurora
Edson, Louis Ulmont	A 2	Lincoln
Edwards, Herbert Christian	E 2	Kearney
Egan, Thomas Germaine	CA 2	Nebraska City
Eger, Paul Landis	A 1	Lexington
Eggenberger, August Otto	Au, (S)	Plattsmouth
Eggenberger, Emma Ada	Au, (S)	Strang
Ehlers, Anna Eliza	Au, (S)	Roca
Ehlers, Bertha Helen Margaret	CA 2, (S)	Scribner
Eiker, Anna Claire	CA 1	Sparta, Ill.
Eldred, William Carroll	E 2	McCook
Eldredge, Delmer Gilbert	CA 1	Omaha
Eller, Mary Louise	CA 1	Blair
Elliott, Ada Laura	A 3, T 3	Lincoln

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Elliott, Dwight C.	A 3.	Mason City
Elliott, Loring	A 2.	Omaha
Ellis, Cally L.	A 1.	Beaver City
Ellis, Harry Hiram	L 1.	Beaver City
Ellison, Arthur Maxwell	E 1.	University Place
Ellison, Estella May	CA 2.	University Place
Ellsworth, Dorothy	A 1.	Lincoln
Elwell, John Alois	CA 4.	Springfield
Elwell, Joseph Money	CA 1.	Springfield
Emery, Paul McGee	Lu.	Lincoln
Emley, Alban Maurice	L 2.	Wisner
Emley, Arthur Averill	A 2.	Wisner
Enfield, Fred Donald	L 3.	Omaha
Engdahl, Alfreda	Au.	Wausa
Engleman, Edwin Earl	CA 3, A 3.	Grand Island
Engleman, John Ireland	A 4.	Grand Island
Ensign, Pauline	A 1.	Lincoln
Enyeart, Bertha Elvina	Au, (S)	University Place
Enyeart, Ruth Elaine	CA 1.	University Place
Epperson, Charles Haylett	A 4, L 1.	Clay Center
Ericson, Melvin	E 4.	Stromsburg
Erskine, Earl Bradley	M 4.	Tilden
Estes, Winifred Beatrice	CA 2.	Lincoln
Evans, Edna Ruth	CA 4, (S)	Fairbury
Evans, Leland Hayes	A 1.	Columbus
Evans, Paul Whiting	G, (S)	Bellevue
Evans, Robert Emory, Jr.	A 2.	Lincoln
Eveland, Margaret Gertrude	A 2.	Lincoln
Everts, Glenn Stearns	A 2.	Lincoln
Ewart, Irbing Dodder	E 1.	Lincoln
Ewart, Flora Edna	Au.	Lincoln
Ewing, Frances McKinnon	A 2, (Ex, S)	Lincoln
Ewing, Halle Laura	G, (S)	Lincoln
Ewing, Loren La Verne	A 3.	Harbine
Fairbank, James Partridge	E 2.	Diller
Fairbanks, Ethel	Au.	Clarion, Ia.
Fairchild, Alma Sara	CA 2.	Kennard
Fairchild, Georgia Wright	A 1.	Kennard
Farley, La Flesche Francis	CA 1.	Bancroft
Farley, Marguerite La Flesche	A 3.	Bancroft
Farlin, Elmer Willis	E 1.	Madison
Farlow, Vera Marie	A 4.	Beatrice
Farman, George Franklin	A 4, M 1.	Lincoln
Farquhar, Raymond Revere	A 1.	Lincoln
Farrell, Leilabeth	A 1, (FA)	Lincoln
Farrington, Jules Verne	Mu.	Minneapolis, Minn.
Fate, Clara May	A 4.	Weeping Water
Faulhaber, Marie Helen	Au.	Lincoln
Faulk, Fred W.	Mu.	South Omaha
Fauquet, Donald Warren	CA 1.	Wahoo

Fedde, Margaret Sophie.....	A 4.....	Benson
Fee, Ray Evans.....	E 3.....	Omaha
Feemster, Charles Ferguson.....	G.....	York
Fehlman, Leo George.....	A 1.....	Fairbury
Fehner, Herman Bernhard.....	Au, (S).....	Seward
Ferguson, Jay Leland.....	E 1.....	Broken Bow
Ferris, Joseph Wakin.....	L 1.....	Lincoln
Field, Otis Sikes.....	Mu.....	Lincoln
Fielding, Fred Hebbard.....	L 2.....	Lincoln
Filley, Horace Clyde.....	G.....	Lincoln
Fillipi, Joseph A.....	A 3.....	Clarkson
Finch, Clara Krieg.....	Au.....	Lincoln
Finch, Edgar Thomas.....	Au.....	Lincoln
Finch, Grace.....	Au.....	Grand Island
Finigan, Mary Agnes.....	Au, (S).....	Havelock
Finley, Robert Halbert.....	E 3.....	Omaha
Finney, Jeannette Heaton.....	A 2.....	Lincoln
Fishbach, Oscar Herald.....	CA 2.....	Beatrice
Fisher, Carl Leroy.....	E 3.....	Lincoln
Fisher, Myrtle Idella.....	A 1.....	Fremont
Fishwood, Halley Mennen.....	E 4.....	Lincoln
Fisk, Eva Caroline.....	A 1.....	Lincoln
Fitch, Ruth Ione.....	A 3.....	Lincoln
Fitl, Bessie Rose.....	Au, (S).....	Swanton
Fittle, Edward Frank.....	CA 1.....	South Omaha
Fitz Gerald, Elsie.....	A 3.....	Lincoln
Fitz Gerald, Helen.....	Au, (FA, S).....	Lincoln
Flansburg, Robert Harlan.....	A 2.....	Lincoln
Fleck, Harlow Conrad.....	A 2.....	Lincoln
Fleck, Irene B.....	A 1.....	Lincoln
Fleetwood, Leonard Titus.....	A 3, (S).....	Wakefield
Fleming, William Cleo.....	E 2.....	Beaver City
Flint, Grace Elten.....	Au, (S).....	Pratt, Kansas
Flint, Lena Bartlett.....	Au, (S).....	Pratt, Kansas
Flippin, Georgia Lelia Smith.....	Au, (FA).....	Lincoln
Flory, Paul Jones.....	M 2.....	Pawnee City
Flory, Robert Davison.....	L 3.....	St. Edward
Foe, Howard Samuel.....	L 2.....	Red Cloud
Folken, Garrett, Jr.....	A 2.....	Schuyler
Folsom, Phebe.....	A 1.....	Lincoln
Folsom, Willard Miller.....	A 2.....	Lincoln
Folts, Grace Abbott.....	G.....	Grand Island
Fonda, James Everett.....	Mu.....	North Platte
Forbes, Earl.....	CA 2.....	Fairmont
Forbes, William P.....	G.....	Wayne
Fordyce, Marie Gray.....	Au, (FA).....	Lincoln
Fordyce, Pearl Anna.....	A 1, (FA, S).....	Hiawatha, Kas.
Foreman, Joseph Madison.....	A 3.....	Alvo
Formanek, Joseph Frank.....	E 4.....	Lincoln
Forrest, Anabel Charlotte.....	CA 1.....	Lincoln

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Forsling, Clarence Luther.....	CA 3.....	Kimball
Forslund, Sigrid Elizabeth.....	A 1, (S).....	Stromsburg
Fosnot, Rolla Thayer.....	G, (Ex, S).....	Davenport
Fossler, Shirley Allen.....	A 3.....	Lincoln
Foster, Bessie.....	A 3, (Ex, S).....	Sterling
Foster, Mary Ceneska.....	Au, (S).....	Lincoln
Foster, Thomas Andrew.....	E 3.....	Lincoln
Fouts, Henry W.....	A 3, (S).....	Diller
Fouts, Kenneth Clay.....	CA 3.....	Diller
Fouts, Paul Albert.....	A 1.....	Central City
Fowle, Guy Gilbert.....	E 2.....	Tekamah
Fowler, William Kirk, Jr.....	A 4, E 1.....	Lincoln
Fox, Georgia Irene.....	A 1, (S).....	Gretna
Fox, Grace.....	Au, (S).....	Cedar Rapids
Fraker, Lloyd Royce.....	L 2.....	Lincoln
France, Charles William.....	A 1.....	Millford
Frandsen, Arthur Anthony.....	CA 1.....	Lincoln
Frank, Theodore Louis.....	E 3.....	Ponca
Frank, William Ernest.....	G, L2, (SAs).....	Grand Island
Franklin, N. Victor.....	A 4, (S).....	Cambridge
Franklin, Phillip Leslie.....	A 4, (Ex, S).....	Lincoln
Frazier, Cornelia.....	A 2.....	Lincoln
Freidell, Hugh F.....	A 1.....	Dorchester
Frey, Charles Millard.....	A 1.....	Sterling
Fridrich, Anna B.....	A 1, (S).....	Wilber
Friedel, Morris Moses.....	A 2.....	Omaha
Friedline, Cora Louisa.....	G, (S).....	Lincoln
Frost, Florence.....	A 3.....	Lincoln
Frost, Gouldene.....	A 3, (S).....	Lincoln
Frost, Irving Karl A.....	E 2.....	Uehling
Froyd, Edna Christine.....	A 2.....	Wakefield
Fugitt, Margaret.....	A 1.....	Omaha
Fuller, C. Rex.....	M 2, (Ex, S).....	Emerson
Fuller, Richard Hosford.....	CAu.....	Omaha
Fullerton, Alice Lillian.....	A 1, (FA).....	Lincoln
Fulton, Edna Inez.....	A 4, T 4, (S).....	Lincoln
Fulton, Raymond Allinson.....	E 2.....	Table Rock
Funke, Carolyn.....	A 2.....	Blue Hill
Gabriel, Bessie Cloyd.....	CA 2.....	Lincoln
Gaddis, Porter Lemuel.....	G.....	Lincoln
Gaeckler, Maude Hazel.....	G.....	Lincoln
Gail, Floyd Whitney.....	G, (S).....	Lincoln
Galbraith, Claude Eugene.....	A 1, (S).....	Beemer
Galbreath, William Robert.....	M 2.....	Waverly, Ohio
Gale, Margaret Marie.....	CA 1.....	University Place
Galley, Maude Evelyn.....	A 1.....	Columbus
Galloway, James Washington.....	E 1.....	Holdrege
Galpin, Marion Chesley.....	G, (S).....	Harlan, Ia.
Gant, Minnie.....	Au, (S).....	Lincoln
Gantt, Robert Fulton.....	A 1.....	North Platte

Ganz, Carl Donald.....	A 3.....	Dunbar
Gardiner, Charles Howard.....	A 1, Lu.....	Omaha
Gardner, Edwin Robert.....	Mu.....	Lincoln
Gardner, Grace Beatrice.....	A 1.....	Gering
Gardner, Spray LaFayette.....	A 1.....	Valentine
Garey, Lewis Farr.....	CA 4, (S).....	Beaver City
Garrett, Melvin Miller.....	E 2.....	Madison
Garrett, Ralph Wallace.....	L 3.....	Madison
Garrison, Fred.....	E 1.....	Lincoln
Garrison, William Lewis.....	E 1.....	Sutton
Garten, Ethel Mary.....	CAu.....	Albion
Gault, Norman Cox.....	L 1.....	Omaha
Gayer, Harry LaFayette.....	A 1.....	Lincoln
Gee, Marion Louise.....	A 2.....	Lincoln
Geer, Glen Geiger.....	A 1.....	Liberty
Geiger, Carl Edward.....	A 1.....	Oberlin, Kansas
Geissler, Paul Christopher.....	A 4, M 3, G.....	ColoradoSprings, Colo.
Gellatly, Harry Chalmers.....	A 1.....	Lincoln
Gelwick, Arthur Ben.....	A 4.....	Ulysses
Gelwick, Myrtle Margie.....	Au, (S).....	Ulysses
Gentleman, Francis William.....	CAu.....	Omaha
Gentry, Harold Ellis.....	E 2.....	Gering
Gentzler, Russell Walker.....	L 1.....	Gothenburg
George, Arthur Gray.....	G.....	Cumro
George, Mary Jane.....	Au, (S).....	Lincoln
George, Selim Shihadeh.....	G.....	Jerusalem, Palestine
George, Vincent Columbus.....	E 2.....	Cumro
Gerlaw, Robert Frantz.....	L 2.....	Auburn
Gibbons, Eva Ellen.....	A 1.....	Comstock
Gideon, Alice Myrtle.....	A 1.....	Omaha
Gieseke, Maree Nora.....	A 2, (S).....	Lincoln
Giffin, Wilson Cassius.....	A 4, E 4.....	Lincoln
Gilbert, Bess Florence.....	Au.....	Grand Island
Gill, Barney William.....	L 3.....	Diller
Gillespie, Marion Mina.....	CA 1.....	Osceola
Gillespie, Raymond Berrier.....	E 3.....	Lincoln
Gilligan, George Ward.....	CA 1, (SA).....	Lincoln
Gilmore, Melvin Randolph.....	G.....	Bethany
Given, Loretta Aleen.....	A 4, T 4, (S).....	Lincoln
Glade, William Patton.....	CA 3.....	Lincoln
Glaser, Walter Leonard.....	E 1.....	Stanton
Glass, Jessie June.....	G.....	Lincoln
Glasser, Charles Edwin.....	E 1.....	Bradshaw
Glenn, Ray Fielding.....	A 2, (Ex, S).....	Seward
Gminder, Edna Leah.....	A 1.....	Lincoln
Godfrey, Earl Lester.....	CA 3.....	Cozad
Goetze, Hartmann Henry.....	E 3.....	Lincoln
Goff, Hugh Adelbert Harding, Jr.....	E 1.....	Nebraska City
Gold, Agnes May.....	A 1, (S).....	McCook
Golden, Bernice Ellen.....	CA 1.....	Lincoln

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Golden, Clear Clement	A 2	Lincoln
Golden, Martina Frances	A 1, (S)	Lincoln
Gomon, Charles Guy	G	Lincoln
Good, Anabel	G	Lincoln
Good, Paul Francis	L 1	Lincoln
Goodnough, John Harland	M 4	Chadron
Goodrich, Anna Geneva	A 1	Nelson
Goodrich, Cecyl Florence	A 1	Lincoln
Gordon, Elizabeth Hope	A 4, T 4, (S)	Lincoln
Gordon, Livingstone Albert	A 1	Lincoln
Gore, Daisy Melvina	Au, (S)	Lincoln
Gorham, Robert Charles	CA 1	Franklin
Gross, Effa Dale	A 2	Lincoln
Goss, Loy	A 4	Lincoln
Goss, Mary Ann	Au, (FA)	Lincoln
Graff, John Carlton	CA 1	Tecumseh
Graham, Bernice Mildred	A 1	University Place
Graham, Ethel Victoria	A 3, (S)	University Place
Graham, George Arthur	Eu, (Ex)	New York City, N. Y.
Graham, Harold Wilson	A 3	Omaha
Graham, Marjorie Estelle	A 1	Lincoln
Grainger, Elsie Elizabeth	A 4, T 4, (S)	Lincoln
Grainger, Harry Kelsall	A 1	Lincoln
Gramlich, Ralph Clifford	M 4	South Omaha
Grant, Frank Clarence	L 3	Auburn
Grant, Jean Anderson	A 4, T 4	Lincoln
Grant, Margaret Williams	A 2	Lincoln
Graves, Harriet	G	Lincoln
Graves, Jessie Belle	Au	Lincoln
Gray, Geraldine Hortense	A 4	Columbus
Gray, Naomi Nellie	Au	Central City
Gray, Viola Clarke	G	Lincoln
Green, Bertha Louise	Au	Lincoln
Green, Frank Emerson	G, (S)	Malvern, Ia.
Green, Marjorie	A 1, (FA)	Lincoln
Green, Ralph Dennis	G, (S)	Lincoln
Green, Roy Melvin	E 4	McCook
Greenberg, Abe	M 3	Omaha
Greene, Sylvester Decatur	Mu	Lincoln
Greenlee, Albert David	E 1	Sidney
Greenstone, Sam	A 1	Lincoln
Greer, Raymond Clifton Leach	E 2	Marquette
Grennan, John	Eu	Lincoln
Greusel, Paul Percival	Mu	Lincoln
Gribble, Harold Everet	CA 1	Dakota
Griesel, Paul Kephart	E 1	University Place
Griess, Rudolph Otto	A 1	Sutton
Griffin, Bayard Franklin	L 3	Lincoln
Griffin, Sam Spielman	L 3	Lincoln
Griffith, Donee	G	Wayne

Griffiths, Elizabeth.....	Au.....	Lincoln
Grimison, James Ernest.....	A 3, (S).....	Lincoln
Grimm, Florence Marie.....	G, (S).....	Lincoln
Grimm, Henry Arnold.....	A 3.....	Lincoln
Grinstead, Zora Virgil.....	Au.....	Bethany
Griswold, Dwight Palmer.....	A 4, L 1.....	Gordon
Griswold, Paul Fisher.....	L 1.....	Lincoln
Gross, John Joseph.....	L 2.....	Wisner
Groves, Benjamin Harrison.....	Au, (Ex).....	Franklin
Grummann, Herbert Richard.....	A 3.....	Lincoln
Grupe, Edgar Young.....	E 3.....	Lincoln
Guenzel, Ernest Usher.....	A 1.....	Lincoln
Guildner, Harry Carleon.....	E 1.....	Grant
Guildner, Louis Purintun.....	E 1.....	Grant
Gund, Edna Mann.....	G.....	Lincoln
Gund, Ida May.....	G.....	Lincoln
Gundermann, Marguerite Marie.....	A 2.....	Ohiowa
Gunnels, Charles Ellsworth.....	CA 3.....	Crete
Gunther, Fred John.....	E 4.....	Weeping Water
Gutberlet, Edward Ludwig.....	A 1.....	Hardy
Gutberlet, Samuel Archibald.....	A 3.....	Hardy
Haarmann, Elsa Helene.....	A 3.....	Omaha
Haas, Brenneman Leroy.....	A 1.....	Pawnee City
Haas, Majorie.....	A 2.....	Syracuse
Hacker, Francis Aloysius.....	E 3.....	Friend
Hadley, Howard.....	A 2.....	Lincoln
Hadsell, Earl Jordan.....	CA 2.....	Butte
Haegele, Maria Anna.....	CAu, (THS).....	Larchwood, Ia.
Hagelin, Clarence Elmer.....	CA 2.....	Wahoo
Hagelin, Paul Albert.....	A 2.....	Wahoo
Hager, Lucile.....	A 4, T 4.....	Omaha
Hager, Robert Henry.....	A 1.....	Lincoln
Hager, Walter Elsworth.....	A 2.....	Bellwood
Haggart, Virgil James.....	A 1.....	St. Paul
Hahn, Ralph Waldo.....	A 4, L 1.....	Wayne
Hajek, Christina Mary.....	Au, (S).....	Lincoln
Hakel, James Adoulph Lawrence.....	A 2.....	Ceresco
Halbersleben, Paul.....	A 1.....	Lincoln
Haley, Margaret Genevieve.....	A 1.....	Valentine
Haley, William Bernard.....	A 2, L 3.....	Valentine
Hall, Anna Elizabeth.....	A 1, (S).....	Friend
Hall, Daisy L.....	A 4, T 4.....	Nelson
Hall, Forest Roscoe.....	E 1.....	Callaway
Hall, Helen Elizabeth.....	CA 1.....	Lincoln
Hall, John Tillotson.....	E 2.....	Pender
Hall, Lulu Mae.....	A3, (S).....	Friend
Hall, Oscar Earl.....	A 1.....	Pawnee City
Hall, Walter.....	E 2.....	Elk Creek
Halle, Alice Beulah.....	A 1, (S).....	Lincoln
Haller, Mary.....	CA 1.....	Omaha

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Halligan, Victor Hugo.....	A 3.....	North Platte
Halliwell, Leo Blair.....	E 2.....	Odessa
Hamilton, Jessie Belle.....	A 1.....	Wahoo
Hammond, Mallie Belle.....	A 3, T 3.....	Pawnee City
Hanel, Osa.....	A 2, (Ex, S).....	Trenton
Hanisch, Louis Everett.....	M 2.....	Rockville
Hanlen, Grace Mathilda.....	CAu.....	Tilden
Hanlen, John Greer Leroy.....	L 3.....	Tilden
Hanlen, Wayne Edwin.....	CA 2.....	Tilden
Hanley, Fred Reinig.....	G.....	Lincoln
Hannah, Margaret Louise.....	G.....	Tilden
Hanner, Clara Elena.....	Au, (S).....	David City
Hanner, Harry.....	CA 1.....	David City
Hans, Oscar Ernest.....	A 3.....	Lincoln
Hansen, Elmer Marion.....	A 2, (4 yr. Pharmacy).....	Lincoln
Hansen, Julia Marguerite.....	Au, (S).....	Vermilion, S. Dak.
Hanson, Christine Hope.....	A 1.....	Concord
Hanson, Marian Elise.....	A 4, T 4.....	Lincoln
Hanthorn, Mattie Alice.....	Au, (S).....	Lincoln
Hanthorn, Emma Evelyn.....	G.....	Lincoln
Hanzel, Edward Sebastian.....	A 1, (S).....	Dodge
Hanzlik, Milo Otto.....	A 4, L 3.....	Cedar Rapids, Ia.
Harden, Edmund Edgar.....	A 1.....	Liberty
Harden, Lloyd.....	E 4.....	Lincoln
Hardin, Claire Martha.....	A 4, T 4.....	Alma
Hardy, Elizabeth Seacrest.....	G.....	Lincoln
Hare, Robert Ammiel.....	G, (S).....	College View
Harger, Chalmer M.....	A 2, (Ex).....	Noreatur, Kans.
Hargett, Anderson J.....	G, (S).....	Lincoln
Harkson, Ulysses Severin.....	E 2.....	Davey
Harlan, Hugh V.....	A 3.....	Lincoln
Harley, Howard Robertson.....	CA 3.....	Lincoln
Harman, Dewey Jehu.....	G.....	Lincoln
Harman, Maud.....	Au.....	Lincoln
Harmon, Hoyt Henry.....	E 4.....	Nebraska City
Harms, Anno Milton.....	G, (S).....	Wymore
Harms, Charles Wesley Warren.....	M 4, G, (S).....	Clatonia
Harney, Le Roy James.....	A 1.....	Wagner, S. D.
Harnsberger, William Ernest.....	A 2.....	Ashland
Harpham, Dorothy Maud.....	A 2, (FA).....	Lincoln
Harpham, Julius Vivyan.....	A 3.....	Lincoln
Harpster, Walter Clarence.....	A 3, (S).....	Lincoln
Harrington, George.....	A 4.....	O'Neill
Harris, David Frederick.....	A 1.....	Lincoln
Harris, George Edward.....	CA 2.....	Lincoln
Harris, Laura.....	Au, (FA).....	Lincoln
Harrison, Louis Elmer.....	E 1.....	Wakefield
Harrison, Lydia La Verne.....	A 1.....	Memphis
Harrison, Peter Ira.....	L2.....	Carleton
Harriss, Beulah Ann.....	A 4.....	Fairbury

Hart, Anna Laura	Au, (S)	Lincoln
Hart, Gladys	A 3, (S)	Hardy
Hart, James Stokes	A 1.	Herman
Harte, Lloyd Warden	E 4.	Gibbon
Hartley, Ethel Pierce	A 1.	Lincoln
Hartman, Leonard Colby	A 1.	Lincoln
Hartwell, Grace Darling	A 1, (S)	Pawnee City
Hartzell, James Wilford	E 1, (S)	Lincoln
Harvey, Clarence Wayne	A 2.	Lincoln
Harvey, Gladys	A 1.	Wauneta
Harvey, Howard Clemons	A 4.	Lincoln
Harvey, Parnel	A 1.	Wauneta
Hasik, Ludvik Charles	A 1, (Ex, S)	Abie
Haskell, Arle Bell	A 2.	Lincoln
Haskell, Roswell	A 4, L 1.	Lincoln
Hatfield, Hermine Roper	A 1.	Lincoln
Hathaway, Margaret Hazel	G, (S)	Holdrege
Hathway, Oliver Channing	A 4.	Lincoln
Haubensak, Herma	A 1, (S)	Fremont
Hauptman, Charles Albert	E 3.	Fremont
Hauptman, Irma Lucinda	Au.	Lincoln
Hawes, Annie	G.	Lincoln
Hawkins, Earl G.	E 2.	Lincoln
Hawkins, Henrietta Catharine	A 1.	Ord
Hawkins, Mary Frances	A 3.	Ord
Hay, Ronald Harding	A 1, (THS)	Lincoln
Haycock, Almira Rivers	Au.	Callaway
Hayden, Myrtle Gladys	G.	University Place
Hayes, Zoe Isabel	A 3, T 3.	Hardy
Hayman, Edward Chapman	Au.	Lincoln
Haynes, Grace Elizabeth	A 3, (S)	Lincoln
Haynes, James Wilbur	E 2.	Omaha
Hays, Byron Gordon	CA 1.	Broken Bow
Haze, Nancy Marie	CAu.	Omaha
Heagney, Agnes Helen	A 1, (S)	Lincoln
Heagy, Florence Frances	Au.	Lincoln
Heaton, Helen Clare	A 3, T 3.	Wahoo
Heckart, Willow	A 2.	Lincoln
Heckler, Bernice Stewart	A 2.	Lincoln
Hedbloom, Hazelle Lea	A 1, (S)	Stromsburg
Heflin, Viola E.	Au.	Lincoln
Heine, Clinton Daniel	M 3.	Hooper
Heine, Myra Irene	CA 1.	Hooper
Heine, Vincent Julius	CA 4.	Hooper
Heitmann, Henry Herman	CA 1.	Crete
Heller, David Glenn	CA 2.	Broken Bow
Hellner, Anna Maria	Au, (Ex)	Oxford
Helm, Charles Albert	G.	Lincoln
Helmig, Theresa Marie	A 1, (S)	Wymore
Helzer, Charles William	A 1.	Valentine

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Hendricks, Jesse Franklin.....	CA 4, (S).....	Nelson
Henkle, Lionel Milton.....	A 1.....	Lincoln
Henley, Walter Raymond.....	A 2.....	Lincoln
Henry, Lena.....	Au.....	Ashland
Henry, Vera Avis.....	A 2, (S).....	Lincoln
Herendeen, Harriet.....	A 2, (S).....	Giltner
Herman, Irma Louise.....	G, (S).....	Lincoln
Herman, Julia Margaret.....	CA 1.....	Omaha
Herold, Matthew Gering.....	A 2.....	Plattsmouth
Herrick, Marie Louise.....	A 3.....	Lincoln
Hess, Harvey William.....	A 4, L 1.....	Hebron
Hesseltine, Dora Evelyn.....	G, (S).....	Peru
Hewit, Dean Myers.....	CA 1.....	David City
Hewit, Emma Edna.....	G, (S).....	Lincoln
Hewitt, Homer Guy.....	A 3.....	Lincoln
Hiatt, Marjette May.....	A 4, T 4.....	Lincoln
Hickman, Arthur Lynn.....	E 4.....	Aurora
Hickman, Goldie Charlotte.....	Au, (Ex).....	York
Hickman, Leon Archibald.....	L 2.....	Seward
Higbee, David Rathburn.....	M 1.....	Omaha
Higby, Helen L.....	Au, (S).....	Lincoln
Higgins, Blanche Glade.....	A 1.....	Shubert
Higgins, Edith Charity.....	A 3, T 3.....	Beatrice
Higgins, Ray Morten.....	L 2.....	Hartington
Hill, Burton Saufley.....	A 3, (Ex).....	Buffalo, Wyo.
Hill, Delila Almeda.....	A 3, T 3.....	Falls City
Hill, Florence Berneice.....	A 4, T 4.....	Lincoln
Hill, Phoebe Clara.....	A 1.....	Lincoln
Hill, Ralph Wright.....	L 1.....	Hebron
Hills, Ethel Fannie.....	A 3, T 3.....	Lincoln
Hills, Ruby.....	A 3, T 3.....	Sidney
Hiltner, Arthur Herbert.....	G.....	Lincoln
Hilton, John William.....	G.....	Bethany
Himebaugh, Roland Warner.....	E 1.....	Hooper
Hindes, Earle P.....	A 3.....	Scottsbluff
Hines, Leon Llewellyn.....	A 3, L 1.....	Benkelman
Hinman, Arley Ray.....	CA 2.....	Wymore
Hinterlong, Anna Laura.....	G.....	Minden
Hinze, Alfred Franz.....	A 1.....	Rising City
Hisson, Marion Homer.....	E 1.....	Havelock
Hitchcock, Julia.....	A 2.....	Lincoln
Hixenbaugh, Frank Lesley.....	A 1.....	Omaha
Hixenbaugh, Walter Alden, Jr.....	A 1.....	Omaha
Hlaya, Adolf Virgil.....	E 2.....	Ravenna
Hoagland, Susan Quick.....	Au, (S).....	Lincoln
Hoberg, Elsie Mildred.....	A 1.....	Nebraska City
Hobson, Cloy St. Clair.....	A 2.....	Beaver City
Hodapp, Edward Paul.....	G, (S).....	Lincoln
Hoegemeyer, George.....	CA 1.....	Hooper
Hoff, Robert Lee.....	G, (S).....	Lincoln

Hoffman, Charles Clarence.....	A 1.....	Franklin
Hoffman, Fannie Catherine.....	CA 1.....	Orleans
Hoffmeister, George W.....	M 2.....	Imperial
Hogue, James Earl.....	CA 1.....	Crete
Hohmann, William Candee.....	A 2.....	Lincoln
Holben, Hubert Young.....	A 1.....	Lincoln
Holcomb, Nettie Ellen.....	A 1.....	Lincoln
Holcombe, Clinton Steele.....	A 2.....	Maxwell
Holdeman, Clara Edith.....	CAu.....	Lincoln
Holen, Charles Emanuel.....	CA 4, T 4, (Ex, S).....	Bertrand
Holland, Marvin Kavanaugh.....	A 1.....	Lincoln
Holland, Robert Ellsworth.....	CA 3.....	Fremont
Holland, Vivienne.....	A 1, (FA).....	Lincoln
Hollenback, Carl Francis.....	A 2.....	Sterling
Hollinghead, Bert Curtis.....	A 1.....	Russell
Hollingworth, Ethel Minola.....	A 1.....	Lincoln
Hollister, Frances Marie.....	CA 2.....	Red Cloud
Holmes, Helma Lou.....	G.....	Tecumseh
Holmes, Rachel Edna.....	G.....	Hastings
Holtz, Harold Frederick.....	E 1.....	Randolph
Holtz, Mary Loraine.....	CA 3, T 3.....	Randolph
Holyoke, Katherine Lavinia.....	Au, (FA).....	Lincoln
Hompes, Gladys.....	Au, (FA).....	Lincoln
Hookstra, Merle Elisa.....	CA 4, T 4, (S).....	Tonawanda
Hooper, Bert Lester.....	Mu.....	College View
Hooton, Mary Belle.....	G.....	Lincoln
Hoppe, Albert August.....	L 1.....	Lincoln
Hoppe, Ernst Christopher Herman.....	A 1.....	Lincoln
Horne, Louis Willard.....	CA 2.....	South Omaha
Horner, Grace Luella.....	A 1.....	Beatrice
Horton, Frances Madeline.....	A 4, T 4.....	Benson
Horton, Fred Lamerton.....	M 2.....	New Castle, Wyo.
Horton, Mary Gertrude.....	A 3, T 3.....	Greeley
Hosek, Will James.....	CA 2.....	Ravenna
Hostetter, Merle.....	A 1, (FA).....	Lincoln
Houchen, Hazel Lydia.....	A 1, (Ex, S).....	Beaver Crossing
Hougas, Lida Emelyn.....	G, (S).....	University Place
Hougnon, Thomas.....	A 1.....	Cambridge
Houlette, Dale G.....	Mu.....	Ravenna
Houlette, Leslie Reade.....	Mu.....	Ravenna
Houmark, Willie Jensen.....	A 2.....	Minden
Houser, Roland N.....	CA 2.....	Lincoln
Houska, Emily Goldie.....	A 2.....	Omaha
Houtz, Gladys.....	CA 1.....	Naponee
Howard, Alice Frost.....	G.....	Lincoln
Howard, Harold Austin.....	E 1.....	Hooper
Howard, Loa Jeannette.....	A 1.....	Omaha
Howard, Lawrence Riggs.....	G.....	Lincoln
Howard, Warren Harold.....	Lu.....	Omaha
Howe, Elsa May.....	CA 1.....	Wood River

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Howey, Loyal Green.....	A 1.....	Lincoln
Howie, Ethel Lee.....	G.....	Lincoln
Hrbek, Cyril Jeffrey.....	A 1, (THS, S).....	Lincoln
Hrbkova, Sarka.....	G.....	Lincoln
Hubenthal, George William, Jr.....	Mu.....	Beemer
Huck, Carl Marshall.....	E 3.....	North Bend
Hudson, Charles Bartlett.....	L 2.....	Omaha
Hueftle, William Christ.....	A 1.....	Eustis
Huffman, Helen.....	A 3, T 3.....	Sheridan, Wyo.
Hugg, Edwin Orville.....	A 2.....	Lincoln
Hughes, Gwendolyn.....	A 2.....	Norfolk
Hummel, Ethel Katherine.....	G.....	Lincoln
Hummel, Florence Josephine.....	Au.....	Humboldt
Hummel, Pearl Nannie.....	A 3, T 3, (S).....	Lincoln
Humpe, Alice A.....	G.....	Lincoln
Hungate, Mary Taylor.....	A 4, T 4.....	Weeping Water
Hunkins, Ralph Valentine.....	A 4, T 4.....	Stratton
Hunt, Loren Thomas.....	Mu.....	Lincoln
Hunter, Loran Donald.....	CA 1.....	Wakefield
Hunter, Richard Eugene.....	CA 1.....	Raymond
Hurt, Leon Claude.....	CA 4.....	Wilsonville
Huston, Harry Edwin.....	CA 2.....	Brock
Hyatt, Agnes Adeline.....	A 1, (FA).....	David City
Hyde, Elizabeth.....	A 4.....	Lincoln
Hymer, Clara Brown.....	CA 3, T 3.....	Grand Island
Ibson, John Lars.....	A 1.....	Central City
Ichinose, Hajime.....	E 4.....	Tokio, Japan
Ickman, Leo E. Victor.....	E 2.....	West Point
Ingalsbe, Grace.....	G, (S).....	Inland
Ingersoll, Arthur William.....	CA 1.....	Syracuse
Inouye, Joshima.....	G.....	Lincoln
Ireland, William Burrus.....	Au, (S).....	Ansley
Irwin, George Worthington.....	L 1.....	Bridgeport
Isaac, Frank R.....	Au, (S).....	College View
Isenburg, Frieda Marie Wilhelmina.....	CA 1.....	Emerson
Israel, Russell William.....	L 1.....	Omaha
Ives, Louise Henriette.....	A 1, (FA).....	Lincoln
Jack, Amy Clara.....	A 2.....	Eustis
Jack, Helen Marie.....	CA 1.....	Lincoln
Jackson, Alta Mae.....	Au, (FA).....	University Place
Jackson, Mabel Emily.....	Au.....	Lincoln
Jackson, Mary Frances.....	G.....	Lincoln
Jackson, Mayme Ethel.....	Au, (S).....	Lincoln
Jackson, Ruby Gertrude.....	A 2.....	Shenandoah, Ia.
Jackson, Winifred Edith.....	Au.....	Lincoln
Jackson, Winnifred D.....	A 2.....	Nelson
Jacobs, Burton Le Roy.....	G, (S).....	Graysville, Tenn.
Jacobson, Clara Matilda.....	Au.....	Lincoln
Jacobson, John Elmer.....	Lu.....	Chadron
James, Glen Hooper.....	A 1, (S).....	Grafton

James Lillian Dazella.....	Au.....	York
James, Vesta.....	A 2.....	Blue Springs
Jackson, Max Beverly.....	L 3.....	Weston
Jandrall, John Middleton.....	A 1.....	Clarks
Janouch, Clara.....	A 4, T 4.....	Lincoln
Janouch, Karl Lawrence.....	CA 3.....	Lincoln
Janssen, Bertha Regina.....	A 3.....	Gothenburg
Jarman, Elva Leona.....	A 1.....	Omaha
Jeary, Clark.....	L 3.....	Lincoln
Jeffords, John Mahoney.....	A 1.....	Broken Bow
Jeffords, Lucy Martha.....	CA 2.....	Broken Bow
Jeffrey, Bess Gertrude.....	A 4.....	Omaha
Jeffrey, Nettie Francis.....	CA 1.....	Omaha
Jeffrey, William Buckland.....	A 1.....	Sloan, Ia.
Jelen, Anna Antoniette.....	A 1.....	Jelen
Jelinek, Ruth Gertrude.....	A 3, T 3.....	Crete
Jenkins, Charlotte Louisa.....	A 2.....	Lincoln
Jenkins, Roscoe Conklin.....	E 4.....	St. Michaels
Jenkins, Thomas Nicholas.....	A 3.....	Neligh
Jennings, Floyd Everette.....	E 2.....	Fremont
Jensen, Anton Henry.....	A 1.....	Blair
Jensen, John Christian.....	G.....	University Place
Jerman, Joseph Anton.....	A 1.....	West Point
Jess, Helen Madeline.....	A 4, T 4.....	Plattsmouth
Jhung, Choong Mo.....	CA 1.....	Seoul, Korea
Jillson, Laura Elvira.....	A 2.....	Stuart
Jindra, Victor Hugo.....	A 1, (S).....	Wilber
Johnson, Aaron William.....	A 1.....	Bertrand
Johnson, Annis Marie.....	A 4, T 4, (Ex, S).....	West Point
Johnson, Caroline Christine.....	G.....	Marquette
Johnson, Clarence Anthony.....	G.....	Lawrence, Kans.
Johnson, Clarence Robert.....	A 2, (THS).....	Wakefield
Johnson, Earl Edward.....	Mu.....	Arlington
Johnson, Edith Myrtle.....	Au, (FA).....	Weeping Water
Johnson, Effie Victoria.....	A 2.....	Wahoo
Johnson, Elsie Louise.....	A 1, (S).....	Broadwater
Johnson, Ernest.....	A 1.....	Omaha
Johnson, Fred Hans.....	CA 1.....	Hastings
Johnson, Harry Guy.....	CA 1.....	Valley
Johnson, Irene.....	A 1.....	Omaha
Johnson, Jeannette.....	CA 2.....	Gandy
Johnson, Joseph Vincent.....	L 3.....	Lincoln
Johnson, Julius Andrew.....	A 4, M 1.....	Omaha
Johnson, Lily Vivian.....	CAu.....	Genoa
Johnson, Mary Ethel.....	Au, (S).....	York
Johnson, Rachel Isabel.....	Au, (FA).....	Lincoln
Johnson, Roy Philemon.....	CA 1.....	Holdrege
Johnson, Rudolph Eugene.....	A 2.....	Omaha
Johnson, Swen Oscar.....	G, (S).....	Wahoo
Johnson, Virginia Voigt.....	Lu.....	Lincoln

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Jones, Belle Mary.....	CA 2.....	Hartington
Jones, Edward Robert.....	E 2.....	Lincoln
Jones, Elmer A.....	E 4, (S).....	Carroll
Jones, Erma Marie.....	A 2.....	Omaha
Jones, Essie May.....	CA 3.....	Minden
Jones, Henry Albert.....	CA 2.....	Seward
Jones, Jessie Gertrude.....	A 2.....	Lincoln
Jones, Myrna Vance.....	A 3.....	Hendley
Jordan, Lloyd Henry.....	L 3.....	Gordon
Jouvenat, Victor Francis.....	A 2.....	Lincoln
Joy, Gertrude Irene.....	CAu.....	University Place
Judd, Myrtle Louise.....	A 4.....	Rising City
Judkins, Walter William.....	A 4, (S).....	Grand Island
Juergens, Herman.....	CA 3, A 3.....	Minatare
Kadlecek, Edward Martin.....	E 2.....	Schuyler
Kallemeyn, Nettie Mildred.....	A 2.....	University Place
Kane, Leo Daniel.....	E 1.....	Wisner
Kastle, Marion Cusack.....	A 1.....	North Bend
Kauf, Selma Luise.....	A 2.....	Hastings
Kauffman, Geraldine Alice.....	A 3, T 3.....	Hardy
Kauffman, Hortense E.....	A 4.....	Hardy
Kauffman, Marguerite Olivet.....	A 1.....	Hardy
Kautz, Archie Rodkey.....	A 3.....	Nebraska City
Kavan, William Edward.....	L 2.....	Omaha
Kechley, Edward Louis.....	G.....	Bethany
Keech, John McCappin.....	E 3.....	Lincoln
Keech, Mary Lourena.....	G, (S).....	Lincoln
Keefer, Theodore Erle.....	L 1.....	South Omaha
Keeffe, James Herbert.....	E 2.....	Jackson
Keegan, John Jay.....	M 3.....	Alliance
Keegan, Myrtle.....	Au.....	Lincoln
Keener, Ruth Pratt.....	CAu.....	University Place
Keens, Dorothy Maude.....	A 1, (FA).....	Lincoln
Keifer, Margaret Eliza.....	A 4.....	Bostwick
Keifer, Oswin.....	CA 3.....	Bostwick
Keim, Franklin David.....	G, CA 4, (S).....	Davenport
Keirle, Clifford Charles.....	E 4.....	Florence
Keith, Alonzo Fred.....	L 3.....	Curtis
Kellenbarger, Ray.....	A 4.....	Anselmo
Keller, Bessie Ellen.....	Au.....	Mount Claire
Kellner, Raymond Howard.....	A 4.....	Scribner
Kellogg, Rachael Louise.....	A 4, T 4.....	Nebraska City
Kenagy, Inez Mildred.....	Au.....	Milford
Kendrick, Raymond Henderson.....	G, (S).....	Sherburne, N. Y.
Kennedy, Roxy Avis.....	Au.....	Lincoln
Kepner, Raymond Brandt.....	M 2.....	Havelock
Kerr, Robert Henderson.....	M 3.....	Omaha
Kess, Benjamin True.....	G, (S).....	Lincoln
Keyes, George Cecil.....	A 1.....	York
Kidd, Norma Josephine.....	A 3.....	Beatrice

Kiddoo, Edgar Dodson	A 1	South Omaha
Kiddoo, Guy Cabbell	L 3	South Omaha
Kieck, William Gehrt	A 4, L 1, (S)	Springfield
Kiefer, Catherine Christina	A 1	Lincoln
Kier, Samuel Max	E 1	Lincoln
Kies, Paul Philemon	G	Normal
Killian, Pauline	CA 2	Wahoo
Kilpatrick, Augusta Rachel	A 1	Beatrice
Kim, Ho Yern	A 1	Korea
Kimball, Carolyn	A 1, (FA)	Hastings
Kimball, Kent K	E 1	Lincoln
Kimball, Marjorie Perkins	A 1	Lincoln
Kimball, Ruth	A 4, T 4	Hastings
Kimmel, Wanda Jeanette	A 2, (S)	Lincoln
Kincaid, Nita Beatrice	A 1, (S)	Hiawatha, Kans.
Kindig, Ira Nelson	CA 2	Homesville
King, Alice	A 1	Fremont
King, Dexter D	M 4	Lincoln
King, Ethel Meda	A 3, T 3, (S)	Lincoln
King, Hazelle Shirley	A 2	Sidney
King, Leva M. Foster	Au	Lincoln
Kingery, Lisle B	A 3	Tilden
Kingsbury, Leslie Herbert	L 1	Ponca
Kinney, Viva Juaneta	A 4, (Ex, S)	Blue Springs
Kinsinger, James Wadsworth	A 1, (Ex)	Milford
Kinyon, Kate Pamela Woodard	CA 3, (S)	Lincoln
Kirk, Ray Marshall	CAU	Culbertson
Kirk, Raymond Eller	A 3	Kearney
Kirk, William	G	Lincoln
Kirkwood, Ollie Martha	CA 1	Lincoln
Kirsch, Alta Louise	A 1, (S)	Hooper
Kirsch, Hollis Harlan	A 1	Lincoln
Kirsch, Laura Harrietta	A 1, (S)	Hooper
Kirschner, Harold Harpster	Mu	Liberty
Kirschstein, Irene Bates	A 3, T 3	Omaha
Kittinger, Ethel Florence	A 1	Lincoln
Kittinger, Mary Alice	A 3, T 3	Lincoln
Kjeldgaard, Andreas	E 4	Brush, Colo.
Kjelson, Albert Victor	CA 3	Gothenburg
Kjelson, Astred Althea	CA 4, T 4, (S)	Gothenburg
Klein, Ernest Frederick	Mu	Lincoln
Klietsch, Fritz Herman	E 1	Weeping Water
Kline, Philip	M 1	Omaha
Kline, William Gordon	L 1	University Place
Kneeshaw, Gladys Stella	CA 3, T 3	Lincoln
Knepper, Katherine Mae	A 4, T 4	Lincoln
Knepper, Ruby Rosamond	G	Lincoln
Knight, Dorothy Eunice	CA 4	Lincoln
Knight, Vivian Mary	A 1	Lincoln
Knittel, John Rudolph	A 1	Sioux City, Ia.

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Knodle, Archibald Max.....	A 1.....	Lincoln
Knotts, Laura Rebecca.....	A 4, T 4, (S).....	Sioux City
Knutzen, Henry Adolph.....	E 2.....	Kearney
Koch, Edward Henry.....	Au, (S).....	Papillion
Koch, Harold Christian.....	L 1.....	Fullerton
Koehler, Helen Fidelia.....	A 4, T 4.....	Hastings
Koehler, Henry Irvin.....	CA 2.....	Pilger
Kohn, Lovell Edward Thomas.....	A 1.....	Benedict
Kokjer, Thomas Edgar.....	CA 2.....	Clarks
Kolb, Della Juanita.....	CA 1.....	York
Kotlar, Frank John.....	M 4.....	Columbus
Kouba, Robert Fred.....	Mu.....	Friend
Koupal, Richard Vitus.....	A 1, (S).....	Creighton
Kovanda, Rudolph A.....	A 4, (S), (4 yr. Pharm.)	Table Rock
Krahulik, Emil Joseph.....	A 1.....	Clarkson
Krajicek, Stephen Alvin.....	E 4.....	Arlington
Kramer, Bertha Nathalia.....	G.....	Aurora
Kramer, Herman Frederick.....	E 4.....	Lincoln
Kratz, Golden Paul.....	L 1.....	Bloomfield
Kraus, Leo William.....	Au.....	South Omaha
Kraus, Mary Veronica.....	CA 2.....	North Bend
Krause, Clyde Lauren.....	A 3.....	Albion
Krause, Harold Paul.....	L 3.....	Albion
Krause, Laura Magdalena.....	A 2, (FA, S).....	Adams
Krebs, August Charles.....	A 2.....	Friend
Kreidler, Jessie Gertrude.....	Au.....	Belgrade
Krisl, Mary Ellen.....	A 1, (S).....	Milligan
Krueger, John Fritz.....	G.....	Atchison Kans.
Krugg, Morton Howard Robb.....	L 3.....	Joplin, Mo.
Krula, Emma A.....	Au, (S).....	Sumner
Kruse, Frank Jacob.....	A 3, L 1.....	Lincoln
Kubik, Ladislaus.....	A 1.....	Clarkson
Kubik, Theodore.....	A 3.....	Clarkson
Kuenning, Arnold Christian.....	CA 4, (S).....	River Falls, Wisc.
Kugler, John McKinley.....	A 1.....	Riverton
Kuhn, Ada Ruth.....	A 3, T 3.....	Lincoln
Kuhn, Ewing Williams.....	CA 2.....	Lincoln
Kuhn, Gladys Francis.....	A 4, T 4, (S).....	Lincoln
Kuhn, John Blaine.....	CA 1.....	Lincoln
Kuns, David Raymond.....	G, (Ex, S).....	Bellwood
Kuns, Ford Bert.....	A 3, (S).....	Oakdale
Kunselman, Glade Viola.....	CA 1.....	Fairfield
Kuppinger, Herman E.....	Lu.....	Lincoln
Kyle, Henry Irving.....	L 2.....	Lincoln
Lacey, Herbert Camden.....	G.....	College View
Lacy, Mona Marguarette.....	A 1.....	Lincoln
La Grange, Nettie.....	Au.....	Fullerton
Lahr, Ralph Oliver.....	A 1.....	Lincoln
Lahr, Ruth Gretchen.....	A 1.....	Lincoln
Lain, Mary Ethel.....	Au.....	Dorchester

Laird, Russell Bedford	CA 2	Lincoln
Lake, Lilburn B	M 1	Richmond, Ky.
Lally, Eleanor Mary	A 4, (Ex, S)	Warrensburg, Mo.
Lamb, Nellie Myrtle	CAu	Milford
Lamb, William Harrison	A 4	Washington, D. C.
Lamborn, Jennie Pearl	A 1, (S)	Palmyra
Lamborn, Louisa Ward	A 1, (S)	Palmyra
Lamoreaux, Rhea	G, (S)	Omaha
Lamson, Ernest Leland	E 1	Soldier, Idaho
Lamson, Pearle Hildreth	A 2, (Ex, S)	Soldier, Idaho
Landgren, Albert Vincent	E 1	Omaha
Lane, Darrell Thomas	A 3, L 1	Seneca
Lane, Fannie Fern	A 3	Lincoln
Lanphere, Grant Harold	A 2	Gresham
Lanphere, Sherman M	E 1	Gresham
Lanz, John Edward	A 2	Plymouth
Larsen, Antonius Andrew	A 3, (4 yr. Pharmacy)	Homer
Larson, Albin Victor	E 4	Arapahoe
Larson, Russell Lowell	A 1	Randolph
Lathrop, Louis Arthur	CA 4	Swanton, Ohio
Laune, Ferris Finley	A 4	Sidney
Laverty, Cecil Fay	Au	Burwell
Laverty, Frances Pearl	A 1	South Omaha
Leach, William Griffen	A 1, (THS)	Hebron
Leamer, Esther Viola	CA 3	Dakota City
Leamer, George William	L 3	Dakota City
Leaming, Charlotte Marion	A 4, (S)	Lincoln
Lee, Arnim Alvin	A 2	Central City
Lee, Charles Bopes	G, (S)	Lincoln
Lee, George Ernest	A 1, (S)	Culbertson
Lee, Musing Sup	Au, Eu, (S), (4 yr. Pharm.)	Ham-hung, Korea
Lee, Victor Sheridan	A 1, E 1	Louisville
Lee, Yong Kin	Au	Ham-hung, Korea
Lefler, Harry Harland	Lu	Elmwood
Lehew, Robert Milton, Jr.	A 4	Lincoln
Lehmer, Lloyd Herbert	A 3	South Omaha
Lehmer, Theodore John	A 3	South Omaha
Leitch, Virginia Fugua	A 1	Lincoln
Le Masters, Cora Alice	A 3, (Ex, S)	St. Paul
Lemmon, Clarence Eugene	G	Ashland
Leonard, Earl Renshaw	M 2	Rock Valley, Ia.
Leonard, Leon Hershey	E 2	Neligh
Lerum, Lillian	A 4, T 4	Plainview
Leschinsky, Frederic Jacob	E 2	Loup City
Leslie, Kenneth	G	Halifax, N. S.
Leui, Helen Margaret	A 1	Lincoln
Lewinsohn, Cora Lillian	A 1	Lincoln
Lewis, Alfred Henry	A 3	Wayne
Lewis, Amy Marguerite	A 1	Superior
Lewis, Arnold C	A 1	Ravenna

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Lewis, Charles Leslie.....	E 3.....	Fairfield
Lewis, Garland Edison.....	G, (S).....	Lincoln
Lewis, Gladys Albertine.....	CA 3, T 3.....	Superior
Lewis, Marie Arden.....	A 1.....	Omaha
Lewis, Virginia Darneille.....	A 1.....	Omaha
Leyda, Catherine Camille.....	A 2.....	Falls City
Leyda, Magaret Lucille.....	A 2.....	Falls City
Liebendorfer, Edward Lowell.....	E 2.....	Pawnee City
Liebendorfer, Gene Forrest.....	A 2.....	Pawnee City
Liebers, Anna Otilie.....	CA 1.....	Lincoln
Liggett, Ethel Merle.....	CAu, (Ex).....	York
Liggett, Mary Elizabeth.....	Au.....	Lincoln
Lillibridge, Chauncey Clark.....	Mu.....	Weston
Lillie, Don M.....	A 1, (S).....	Lincoln
Linch, Harry Benjamin.....	Mu.....	University Place
Lindberg, Ernestine Elizabeth.....	A 1.....	Elgin
Lindeberg, Ernest Ludwig.....	E 2.....	Genoa
Lindeblad, Elmer Eranius.....	CA 1.....	Oakland
Lindley, Edna Ruth.....	G.....	Omaha
Lindsey, Ethel Leona.....	A 1.....	Newcastlé, Wyo.
Lindsey, Jane Lydia.....	A 3.....	Hebron
Linn, John Lovejoy.....	M 2.....	Omaha
Linstrum, Arthur Chandler.....	E 3.....	Columbus
Lipman, Sol Mark.....	E 2.....	Bassett
Locke, William Matthew.....	L 1.....	Stanton
Lockwood, Margaret Matilda.....	G.....	Lincoln
Loeb, Marguerite.....	A 1, (FA).....	Lincoln
Lohmann, Charles Valentine.....	E 2.....	Grand Island
Lonabaugh, Harvey Ellsworth.....	Lu.....	Sheridan, Wyo.
Long, Esther Emily.....	A 3, T 3.....	Lincoln
Long, Fern Zelpha.....	A 3, T 3.....	Lincoln
Long, Margaret Eleanore.....	CA 4.....	Madison
Long, Maurice Blaine.....	A 1.....	College View
Long, William Ernest.....	Lu.....	Kearney
Longacre, Ferne Alice.....	A 1.....	Dodge
Longacre, Mabel Anna.....	A 1.....	Dodge
Longman, Edward Harvey.....	G, (S).....	Bethany
Lonneker, Adah Marion.....	A 4, (S).....	Madison
Loomis, Gilbert Churchill.....	A 3.....	Omaha
Loomis, Howard Waldron.....	L 2.....	Fremont
Loomis, Lucinda Bills.....	G.....	Lincoln
Loomis, Maurice Morton.....	A 1.....	Omaha
Lorance, Helena Josephine.....	A 1.....	Auburn
Lord, Gladys Malone.....	A 2.....	Lincoln
Lord, Lauretta Ellenor.....	A 2.....	Randolph
Losey, Ray Robinson.....	M 1.....	Fremont
Lothrop, Grant.....	A 4, T 4, (S).....	Blair
Lowe, Anna Wherry.....	A 2.....	Falls City
Lowe, Isabella Charlotte.....	A 2, (THS).....	Kearney
Lowe, Lulu Isabella.....	Au (S).....	University Place

Lowenberg, Gladys.....	A 2.....	Fremont
Lowry, Beatrice Genevieve.....	A 3, T 3, (S).....	Lincoln
Lowry, Leo Raymond.....	A 1.....	South Omaha
Lowry, Mae.....	A 1, (THS).....	Ansley
Lubker, Carl Henry.....	CAu, (S).....	Cedar Bluffs
Lucas, Olive Ruth.....	A 4, T 4, (S).....	Foster
Luckey, Anna Louise.....	A 1.....	Lincoln
Luckey, Henry Carl.....	G.....	Lincoln
Ludden, Kathryn Mildred.....	A 2, (FA).....	David City
Ludi, Belle Lucinda.....	CA 1.....	Lincoln
Ludi, Harry Joshua.....	CA 2.....	Wahoo
Ludi, Nellie Vera.....	CA 1.....	Lincoln
Luebs, August A.....	E 4.....	Wood River
Lufkin, Mildred Van De Water.....	CA 1.....	Fairfield
Lumsden, Edith Pansy.....	A 1.....	Atkinson
Lute, Nellie Ida.....	Au, (FA).....	Paxton
Lutz, Georgia Frances.....	A 1, (FA).....	Blair
Lutz, Osmond Ray.....	Au, (FA).....	Arcadia
Lyda, Curtis Owen.....	A 3.....	Lincoln
Lyford, Constance.....	A 1.....	Falls City
Lyford, Helen Mary.....	A 1.....	Falls City
Lyman, Blanche Margaret.....	G, (S).....	Lincoln
Lyman, Ralph Gordon.....	E 1.....	South Omaha
Lyman, Richard Forsey.....	E 4.....	Fort Crook
Lynch, James Eric.....	A 2.....	South Auburn
Lynch, Lindon Lamar.....	A 3, E 3.....	Lincoln
Lynch, Verne Marquis.....	E 2.....	South Auburn
Lyne, J. Lloyd.....	E 1.....	St. Paul
McAdam, Maurine Crownover.....	A 4, T 4.....	York
McAdams, Minnie Caroline.....	A 4, (S).....	Western
McBeth, Charles Edwin.....	A 1.....	Shelby
McBride, Maud Mildred.....	Au.....	Lincoln
McBrien, Dean Depew.....	A 4.....	Harvard
McCandless, Gertrude.....	A 1.....	Nemaha
McCarthy, Margaret Dorothy.....	A 1.....	Spalding
McCarthy, Rose Frances.....	A 1, (S).....	Wahoo
McCartney, Hazel.....	A 2.....	Thurman
McCaw, Beulah Louise.....	A 3, T 3.....	Lincoln
McClean, Marian Hazel.....	Au.....	Fremont
McClymont, Ruth Miller.....	A 2.....	Holdrege
McComas, Helen Louise.....	A 1.....	Grand Island
McConnell, Abigail Mary.....	CAu.....	St. Paul
McCorkle, Frank Ellsworth.....	E 1, (THS).....	Holton, Kans.
McCoughan, John Joseph.....	Au, (S).....	College View
McCoy, Carroll William.....	CA 2.....	Tecumseh
McCray, Minnie Vergil.....	G.....	Manhattan, Kans.
McCray, Viva Margaret.....	G.....	Manhattan, Kans.
McCreery, Guy Winters.....	G.....	Lincoln
McCullough, Phillip Morgan.....	E 3.....	Omaha
McCullough, Robert Jesse.....	A 1.....	Sterling

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McCullough, Roger Shaw	A 1	Lincoln
McDonald, Wallace Brothch	Lu	Omaha
McDonald, Warren Robert	A 1	Pierce
McEachen, James Allen	A 2	Wayne
McFarlane, John William	CAu	Omaha
McGee, Harry Edwin	A 1	Lincoln
McGee, Randall R	G, (S)	Syracuse
McGerr, Claire Lenora	Au	Lincoln
McGrath, Wilmer Delavergne	M 2	Elsie
McGraw, Myra Marguerite	CA 1	Lincoln
McGrew, George Peery	A 1, (S)	Auburn
McGrew, Marion Baird	G	Lincoln
McGurk, John Scribner	L 2	David City
McHenry, Margaret Miller	A 4, T 4	Denison, Ia.
McHugh, Robert Emmet	A 4, (Ex, S)	Waverly
McIntosh, Grace	A 3	Lincoln
McKee, Marie Louise	A 2	Aurora
McKeen, Helen Ruth	Au, (S)	Blair
McKelvie, Floss DeArnold	Au, (Ex)	Lincoln
McKinnon, Alice Genevieve	Au, (FA)	Lincoln
McLain, Grace Norris	G	University Place
McLean, Earl	L 1	University Place
McLeod, Isabel Mary	CAu, (S)	Kennedy
McMahon, Clara Marguerite	A 2	Lincoln
McMahon, Grace Ellen Marie	A 4, T 4, (S)	Lincoln
McMaster, James Lloyd	L 1	Central City
McMichael, Ruth	A 3	Moorefield
McMullen, William Louie	L 1	Burwell
McNabb, Frances	Au	Lincoln
McNabb, Harold Sanderson	E 3	Lincoln
McNamara, Eva Gertrude	A 1	Nebraska City
McNerney, Leila Mary	A 3, T 3	Lincoln
McPherrin, Maude Wilma	A 3	Tecumseh
McReynolds, Elmer Louis	CA 2	Ashland
McReynolds, Willa	CA 1	Ashland
McVicker, Hugh Harris	A 1	Lincoln
MacDonald, Frederick Boyver	A 2	Lincoln
Mac Donald, Gilmour Byers	G	Ames, Ia.
Mace, Marguerite	A 1	Columbus
MacHerron, Byron Charles	E 1	Pender
Macomber, Frank D. Sumner	E 1	Sioux
Madsen, Victor Walter	E 2	Lincoln
Maguire, Bess Lucile	Au	York
Maher, Ruth Katherine	A 4	Blair
Main, Edna Ruth	CAu	Albion
Maitani, Hikojiro	G	Takamatsu, Japan
Mallat, Emma	A 1	Lincoln
Maloch, Clara Julia	CA 1	Prague
Malone, Elsie Mildred	A 1, (FA)	Lincoln
Malone, Florence	A 4, (S)	Lincoln

Malone, Lillyan May.....	Au (S).....	Cortland
Malzacher, Fannie Elizabeth.....	A 2.....	Oakdale
Manker, Tamzon Marie.....	Au, (FA).....	Lincoln
Mann, George Russell.....	L 2.....	Ord
Mansfield, Henry, Jr.....	CAu.....	Lincoln
Mansfield, Margaret.....	A 2.....	Lincoln
Mantor, Edna Clara.....	G.....	Lincoln
Mapes, Donald Durland.....	A 3.....	Norfolk
Marcy, Mignon Josephine.....	A 1, (S).....	Ashland
Margaret, Sister.....	Au, (Ex, S).....	Hastings
Markham, Edgar Alexander.....	CAu.....	Lincoln
Marks, Robert Howard.....	Eu, (Ex).....	Alexandria
Markward, Herbert William.....	G.....	Funk
Marohn, Beulah Juliet.....	A 4, T 4, (S).....	Lincoln
Marohn, Lucile Meredith.....	A 1.....	Lincoln
Marohn, Roy Adolph.....	A 3, T 3.....	Lincoln
Marquardt, Eda Louise.....	G.....	Avoca
Marquis, Vance William.....	E 2.....	Osceola
Marsh, Harry Griffith.....	CA 1.....	Omaha
Marsh, Harry Vernon.....	L 2.....	University Place
Marshall, James Byron.....	Mu.....	Douglas
Marshall, Marguerite Elizabeth.....	A 2.....	Omaha
Marshall, Nellie White.....	Au, (S).....	Lincoln
Martin, George Ellsworth.....	A 4, (S).....	Nebraska City
Martin, Geraldine.....	Au, (FA, S).....	Lincoln
Martin, James Floyd.....	E 1.....	Lincoln
Martin, Leslie Edson.....	A 3, (S).....	Schuyler
Martin, Llewellyn Lee.....	E 1.....	Sidney
Martin, Minnie Alice.....	Au.....	Fairbury
Martin, Otis.....	M 1.....	Central City
Martin, Paul Leroy.....	L 2.....	Sidney
Martz, Bess Anderson.....	Au, (FA, S).....	Lincoln
Martz, Clyde Ollen.....	E 4.....	Lincoln
Maruyama, Tom Ejiro.....	Eu.....	Wakayama, Japan
Marx, May Grace.....	A 1.....	Lincoln
Maryott, Florence Mary.....	Au.....	Lincoln
Maryott, Fred, Jr.....	E 1, (SAs).....	Hooper
Mason, Bessie Pearl.....	M 3.....	Beaver City
Mason, Luella Kezia.....	A 2, (S).....	Beatrice
Mastin, Guy Noble.....	L 1.....	Auburn
Matheny, Columbia Mae.....	A 3, T 3.....	Hubbell
Matheny, Ethalinda Cotes.....	CA 2.....	Hubbell
Matheson, Earl Alexander.....	E 3.....	Stanton
Mathews, Jane Elizabeth.....	A 2.....	Scottsbluff
Mathews, Robert James.....	CA 2.....	Scottsbluff
Mathewson, Louise.....	Au, (S).....	Lincoln
Matteson, Helen Mary.....	A 2.....	Lincoln
Matthews, Edna Luella.....	Au, (S).....	Tekamah
Matthews, Ina Courtney LeHew.....	Au.....	Lincoln
Mattley, Irma Amelia.....	A 1, (S).....	Ansley

Mattox, John Galon.....	A 1.....	Scottsbluff
Maudlin, Mina May.....	G.....	Ladora, Ia.
Mauer, Roy Thornell.....	M 1.....	Council Bluffs, Ia.
Mawhinney, Beryl.....	A 1.....	Ravenna
Maxon, Edna Anna.....	A 1.....	Scottsbluff
Maxwell, Carl Allen.....	Eu.....	College View
Maxwell, William Arthur.....	CA 1.....	Beatrice
May, Albert E.....	Lu, (S).....	York
May, Earl Ernest.....	Lu.....	Hayes Center
Maynard, Isabel Rufena.....	A 1.....	Red Cloud
Mayne, Pearl Eudora.....	A 1.....	Shelby, Ia.
Maze, Nellie Mabel.....	A 4, (S).....	Lincoln
Mead, LaVivian Shallenburger.....	A 1.....	Grand Island
Medlar, Arthur Walton.....	G.....	Lincoln
Medley, Raney Mae.....	A 3, (S).....	Peru
Meier, Louis Francis.....	A 3.....	Lincoln
Meisenbach, Geraldine Reeve.....	A 1, (FA).....	Wilber
Meisinger, Clarence LeRoy.....	A 1.....	Lincoln
Melick, Florence Hazel.....	A 4.....	Bethany
Melick, Marion Maud.....	G.....	Bethany
Mellon, Irwin Albert.....	E 1.....	Ponca
Melvin, Willa Blanche.....	G.....	Elgin
Meredith, Mamie Jane.....	G.....	Lincoln
Merriam, Benjamin Faye Mills.....	E 3.....	Seward
Merrick, Homer Curtis.....	CA 4, (S).....	Adams
Merrick, Ruth Beatrice.....	A 1.....	Osceola
Mesner, Francis David.....	G, (S).....	Central City
Mesner, Julia May.....	G, (S).....	Central City
Mesropian, Alice Ripsima.....	A 2.....	Lincoln
Mesropian, Florence Nightingale.....	A 1, (S).....	Lincoln
Mesropian, Herbert Newton.....	M 1.....	Lincoln
Messenger, Zella Hope.....	A 3.....	Fairbury
Metcalf, Grace Eloise.....	A 2.....	Sargent
Metz, Hazel Florence.....	A 1, (S).....	Mankato, Kansas
Meyer, Carl Augustus.....	M 3.....	Omaha
Meyer, Earl Luther.....	L 2.....	Peru
Meyer, Pearl Myrtle.....	Au, (FA).....	Peru
Meyer, Susa Mary.....	Au.....	University Place
Meyers, Peter Thomas.....	CA 4.....	Hendley
Michaelson, Anna Marie.....	A 3, (S).....	Rushville
Mickel, Clarence Eugene.....	CA 1.....	Lincoln
Mickey, Arthur Bayard.....	A 1.....	Osceola
Mikulas, Rose.....	A 1, (S).....	Wilber
Miles, Frank C.....	G, (S).....	Lynch
Miller, Alice Ruth.....	A 3.....	Kearney
Miller, Arthur Parker.....	A 1.....	Neligh
Miller, Charles Welch.....	CA 2.....	York
Miller, Clarence Edison.....	A 4, (S).....	Lincoln
Miller, Don Harry.....	CA 2.....	Blair
Miller, Edith Gertrude.....	A 2.....	Lincoln

Miller, Edith Margaret	A 3	Gibbon
Miller, Edna Emma	G, (S)	Lincoln
Miller, Edna Grace	A 4, (S)	Lincoln
Miller, Forrest Jennings	L 1	Carlton
Miller, Frank Harold	A 1	York
Miller, Gladys Mary	A 2	Surprise
Miller, Glenn Eugene	A 2	Ravenna
Miller, Glenn Harold	A 2	Lincoln
Miller, Harold Humphrey	Mu	Friend
Miller, Harold Pearl	E 4	Lincoln
Miller, John Louman	CA 1	Lincoln
Miller, John Walter	L 1	Holmesville
Miller, Julia Beatrice	A 2	Beatrice
Miller, Louise	G	Lincoln
Miller, Millis Emerson	A 1	South Omaha
Miller, Roland John	E 2	Ravenna
Miller, Winifred Sanderson	A 1	Lincoln
Milliken, James Dale	L 1	Fremont
Mills, Clara Urania	Au	University Place
Mills, Emer Lloyd	E 1	Lincoln
Mills, Mary Elizabeth	CA 1	College View
Mills, Ruth	A 2	Omaha
Miner, Walter Howard	Mu	Ravenna
Minor, Helene	A 1	Lincoln
Minshall, Hazel Goldie	Au	North Platte
Minthorn, Martin Lloyd	A 1	Castana, Ia.
Miskell, Clara May	A 4	Lincoln
Misko, George Harold	A 1	Ord
Miskovsky, Robert Joseph	E 2	Omaha
Mitchell, Cecil Albine	A 1	Wabash
Mitchell, Claude William	Mu	Lincoln
Mitchell, Guy Euston	E 2	Waverly
Mitchell, Helen Schwab	G	Lincoln
Mitchell, Lulu Leona	A 1	Lincoln
Mitchell, William Erskine	A 2	Council Bluffs, Ia
Moates, Guy Hart	A 1	Plainview
Moehnert, Ernest William	L 1	Madison
Moffitt, Ina Florence	A 1, (S)	Fremont
Monbeck, Roy Royer	G	Lincoln
Monroe, Ernest Franklin	G	Shelton
Monson, Alvin Otto	A 1	Osceola
Montgomery, Amber Mary	Au	Firth
Montgomery, Earl Clifton	M 1	Omaha
Montgomery, Mary Amber	Au	Firth
Moodie, Carrie Dorothy	A 2	West Point
Moomaw, Glen Clarence	E 1	Lincoln
Moomaw, Leon Austin	G, (Ex)	Bethany
Moon, Charles Franklin	M 4	Ashland
Moon, Georgia Jones	A 1, (S)	Ashland
Moore, Calvin Turner	G	Lincoln

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Moore, James Stuart.....	A 1.....	Lincoln
Moore, Leila Blanche.....	CA 2.....	Decatur
Moore, Mary Hunter.....	Au, (S).....	College View
Moore, Robert Leo.....	CAu.....	Tekamah
Moore, Roy Walker.....	E 4.....	Seward
Moore, Ruth Luella.....	CA 1.....	Decatur
Moore, Samuel W.....	G, (S).....	Hiawatha, Kans
Morgan, Harold Phillip.....	CA 1.....	Lincoln
Morgan, Jennie Amelia.....	G, (S).....	Craig
Morgan, Kathryn Jennie.....	Au.....	Lincoln
Morgenthaler, Edna.....	Au.....	University Place
Morning, Mildred Martha.....	A 2.....	Lincoln
Morris, Nellie Esther.....	CA 2.....	Lincoln
Morrison, Ella King.....	Au.....	Lincoln
Morrison, Harold Fleming.....	A 4, (S).....	Lincoln
Morrison, Harold Meredith.....	E 3.....	Norfolk
Morrison, Richard Weller.....	CAu.....	Lincoln
Morrissey, Frank Martin.....	A 2.....	Chadron
Morse, Charles Kennedy.....	G, A 4, T 4, (S).....	Lincoln
Morse, Harold McKinley.....	L 3, (S).....	Clarks
Morse, Jennie Cornelia.....	A 2.....	Fremont
Morse, Majorie Esther.....	A 3.....	Lincoln
Mortimer, Agnes Ogilvie.....	Au.....	Lincoln
Mortimer, Lillie Ann.....	Au.....	Lincoln
Mortimer, Margaret Craig.....	Au.....	Lincoln
Mortlock, Harry Crawford.....	CA 3.....	Lincoln
Morton, William Henry Stephenson.....	G, (Ex).....	Ashland
Moseley, Thomas Wesley.....	G (S).....	Lincoln
Moser, Reuben Allyn.....	M 3.....	Omaha
Moshage, Henrietta Marguerite.....	A 1.....	Woodlake
Mossman, Gladys Eloise.....	A 3.....	Lincoln
Mossman, Merle Irene.....	A 1.....	Lincoln
Mossman, Thirza Adaline.....	A 2.....	Madison
Mottinger, Charles Wesley.....	G, (S).....	University Place
Moyer, Earl John.....	L 1.....	Madison
Moyer, Torrence Calvin.....	M 4.....	Lincoln
Muehleis, Lenore Kathryn.....	A 3.....	Cedar Bluffs
Mueller, John Edward.....	E 2.....	Lincoln
Muffly, Harold Benton.....	L 1.....	University Place
Mulligan, Harold Rowe.....	G.....	Beatrice
Mullins, Tom Peter.....	A 3, (S).....	Broken Bow
Munger, Arbor Day.....	A 4, (S).....	Lincoln
Munger, Ruth.....	G.....	Lincoln
Munn, George Alvin.....	L 2.....	Ord
Munneke, Harold Davenport.....	A 2.....	Lincoln
Munson, Elroy Stewart.....	A 4.....	Aurora
Munson, Grace Esther.....	G.....	Orleans
Munson, Marguerite.....	A 1.....	Aurora
Murdock, Maurine.....	A 2.....	South Omaha
Murphy, Audrey Sue.....	A 2.....	Cedar Rapids

Murphy, Edward Emmett, Jr.	Eu.	Lincoln
Murphy, Eleanor Lucile	CA 4, (S)	Homer
Murphy, Grace Lucile	A 1, (S)	Mankato, Kans.
Murphy, Mabel Marie	A 1.	Table Rock
Murphy, Mary Loretta	A 1, (S)	Vesta
Murtey, Ora May	A 4, T 4.	Lincoln
Murtey, Mabel	A 3.	Weeping Water
Myers, Charles Benjamin	CA 3.	York
Myers, Eda Bernice	G, (S)	Lincoln
Myers, Lloyd	A 2.	Fort Crook
Naess, Peter Olson	Au.	Lincoln
Naeve, Erma Georgiana	A 4.	Wahoo
Nafziger, Edward Paul	A 4, T 4, (S)	Fairbury
Nason, Florence Barney	CA 2.	Omaha
Nay, Frank A.	A 3.	Ord
Naylor, James Corban	Lu.	Callaway
Neal, Charles Beebe	L 1.	Kansas City, Mo.
Neal, Emma Turck	A 3, (S)	Lincoln
Neal, Lula	CA 4, T 4, (S)	Lincoln
Neale, Edith Louise	A 4, T 4.	Fort Calhoun
Nedergaard, Nels	M 1, (S)	Blair
Needham, Emma Elvira	A 1.	Bostwick
Neff, Gertrude Blanche	CAu.	Lexington
Neff, Harold Grant	CA 1.	Lincoln
Neff, Ora Ethelda	A 1.	Mead
Neighbors, Thomas Franklin	L 2.	Bayard
Neligh, Phyllis Readinger	A 4, T 4.	West Point
Nelson, Albert Leonard	Eu.	Omaha
Nelson, Chris	A 1.	Blair
Nelson, Clara Jeanette	A 4, (Ex, S)	Oakland
Nelson, Edwin Clark	CA 1.	Superior
Nelson, Elmer Kingsholm	E 2.	Sidney
Nelson, Enoch Wesley	G.	Lincoln
Nelson, Erma Marie	A 3, T 3.	Nebraska City
Nelson, Henning Frithjof	E 2.	Fort Calhoun
Nelson, Henry Gilbert	G, (S)	Brush, Colo.
Nelson, John Fred	A 2.	Scottsbluff
Nelson, Nora Johanna	A 4, T 4.	Omaha
Nelson, William Albert	E 4.	Brayton, Ia.
Neuswanger, George	CA 1.	Greeley, Colo.
Neuswanger, William Ernest	G.	Greeley, Colo.
Neville, Harold	Mu.	Lincoln
Neville, John William	A 1.	Lincoln
Neville, Sarah Virginia	A 1, (FA)	Henrietta, Tex.
Neville, William Dennis	Mu.	Fairbury
Newbecker, Cecil George	A 1.	Ord
Newbrey, Lillie Fern	A 4, (S)	Lincoln
Newkirk, Lee Ross	L 1.	Exeter
Newmyer, Clara Anna	A 3, T 3.	Lyons
Newton, Edwin	A 1.	Aurora

Newton, Glen Irving.....	E 2.....	Lincoln
Nicholls, Carroll Clifford.....	E 2.....	Kenesaw
Nichols, Charles Leslie.....	G.....	Lincoln
Nicholson, Marion Emma.....	CA 1.....	Wisner
Nickel, Walter Joseph.....	A 1.....	Hebron
Nickey, Joseph Calen.....	CA 3.....	Kearney
Niehaus, Friedrich Wilhelm.....	A 4, M 2, (S).....	McClelland, Ia.
Nielsen, Agnes Mathilda.....	A 3, T 3.....	Omaha
Nielson, Arthur Lawrence.....	A 1.....	College View
Nigh, George Washington.....	E 4.....	Bethany
Nigus, Susan Eva.....	A 1, (S).....	Hiawatha, Kans.
Niklaus, William.....	L 2.....	Lincoln
Nissen, Nellie Marie.....	A 1.....	Kennard
Noble, Blanche Olive.....	G.....	College View
Noble, Harold Miller.....	L 3.....	Lincoln
Noble, Homer Adelbert.....	CA 2.....	Lincoln
Noble, Myron DeWitt.....	CA 1.....	Lincoln
Noble, William Findley.....	A 2.....	Omaha
Noddings, William Clayton.....	E 2.....	Chadron
Noelting, Walter William.....	A 1.....	Evansville, Ind.
Nolan, Martin John.....	A 1.....	Alliance
Noll, William Clarence.....	G, (S).....	Lincoln
Noone, John Joseph.....	L 3.....	Omaha
Nordgren, August Edward.....	A 4, (S).....	Newman Grove
Nordstrom, Bertha Lillian.....	A 1, (S).....	Havelock
Nordstrom, Elvyn George.....	CA 1.....	Waverly
Norman, Harold William.....	A 2.....	Omaha
Norris, Elva Lovina.....	CAu.....	Laurel
Norris, Ferris Waldo.....	E 2.....	Beemer
Norris, Hazel.....	A 2.....	McCook
Norris, Leon Edward.....	E 2.....	Falls City
Norris, William Arthur.....	CA 1.....	North Platte
North, Arthur Clyde.....	CA 3, (S).....	Bridgeport
Northrup, Elsa.....	Au, (FA).....	College View
Northrup, Lawrence Curtis.....	A 1.....	College View
Northrup, Louise.....	A 4, T 4.....	Omaha
Northrup, Ralph Henry.....	A 3.....	Omaha
Norton, Leland Davis.....	E 3.....	Lincoln
Novotny, Bohuslav Joseph.....	CA 1.....	Clarkson
Noyes, Bessie.....	G.....	Lincoln
Numbers, Joseph Reno.....	A 2.....	Boise, Idaho
Nunemaker, Greta Marie.....	A 1, (THS).....	Tobias
Nye, Catherine Agnes.....	A 4.....	Kearney
Nye, Orville Kellogg.....	A 1.....	Wisner
Oberfelder, Irving Tobias.....	A 1.....	Sidney
Oberlies, Louis Clark.....	G.....	Lincoln
O'Brian, Brian.....	E 1.....	Kearney
O'Brien, Ruth.....	G, A 4, (S).....	Lincoln
O'Connor, Patrick Walter, Jr.....	Au.....	Lincoln
Odell, Ruth.....	A 4, T 4.....	Omaha

Oden, Constantin Luther Ambrosius.....	A 1.....	Stanton, Ia.
Odman, Marjorie Edith.....	A 2.....	Valparaiso
O'Donnell, Anna Loretta.....	Au, (FA, S).....	O'Neill
Ogden, Edna Alvira.....	A 1.....	Genoa
Ogden, Johanna Frances.....	A 4, T 4.....	Genoa
O'Hanlon, Andrew Reed.....	A 4.....	Blair
Ohlsen, Edwin John.....	E 3.....	Loup City
O'Kief, Bernice Agatha.....	Au.....	Wood Lake
Oleson, Oscar Emil Aase.....	CA 1, A 1.....	Albion
Olinger, Oliver Oscar.....	CA 2.....	Tekamah
Oliver, Jarrett.....	E 4, (S).....	Randolph
Olmstead, Edwin.....	E 1.....	Orleans
Olmstead, Lela Jean.....	A 3, (S).....	Lincoln
Olson, Carl Alvin.....	A 2.....	Stromsburg
Olson, David Segard.....	CA 2.....	Genoa
Ord, Esther Lucile.....	CA 2, A 2.....	Auburn
Orlofsky, Sylvia.....	A 4, (S).....	Lincoln
Orr, Kate Ethel Dunkle.....	Au, (FA, S).....	Lincoln
Orr, Ralph Waldo.....	G, (S).....	Lincoln
Orton, Myrtle Eunice.....	CA 1.....	Unadilla
Orvis, Harriet.....	M 3, A 4, (S).....	Yankton, S. D
Osborn, Barbara Christine.....	A 4, (S), (2 yr. Pharm.).....	Lincoln
Osgood, Elizabeth.....	A 1.....	Hyannis
Ostrander, John Myers.....	E 1.....	Vesta
O'Sullivan, Margaret Josephine.....	A 4, T 4.....	Lincoln
Otoupalik, Hugo Medford.....	A 1.....	David City
Ottgen, Dora Mae.....	Au.....	Adrian, Mich.
Outhouse, Orpha Marie.....	A 1.....	Loup City
Outhouse, Winifred Prather.....	A 4, T 4.....	Loup City
Overman, Wallace Leroy.....	CA 1.....	Galva
Owen, Donald Robert.....	A 2.....	Omaha
Owens, Ralph Harris.....	E 2.....	Cozad
Pace, Ira Albert.....	A 1.....	Guide Rock
Pace, Leo Leander.....	A 1.....	Guide Rock
Packer, Nellie.....	A 2.....	Wakefield
Pade, Emma Madeline.....	A 3, (Ex, S).....	McCook
Padour, Ida Josephine.....	Au, (S).....	Crete
Page, Ruth Marie.....	Au.....	Page
Pagels, Florence Mabel.....	A 4, T 4.....	Beatrice
Paik, Earl Ku.....	A 1.....	Pyung Yang, Korea
Pains, Myron Arthur.....	A 3, (4 yr. Pharmacy).....	Lyons
Palmer, Lawrence John.....	CA 2.....	Genoa
Palmer, Leon Martin.....	A 2.....	Lincoln
Parish, George Edward.....	G.....	Omaha
Parish, Guy Parker.....	A 1.....	Norfolk
Park, Chur Hoo.....	A 3.....	Soon Chun, Korea
Park, Durward Belmont.....	M 2.....	Omaha
Park, Fred Weimar.....	G, (S).....	Lincoln
Parker, Lee Temple.....	E 4.....	Wilsonville
Parker, Mary Abigail.....	A 3, (S).....	Omaha

ROSTER OF STUDENTS

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Parkinson, Robert McKee	E 3.	Omaha
Parminter, Hugh Ernest	G, (S)	Bethany
Parrish, Earle Clokey	E 1.	Culbertson
Parry, Raymond Patton	A 1.	Lincoln
Parsons, Susanne Ring	G, A 4, (S)	Lincoln
Partington, Ada Elizabeth	A 3, T 3.	University Place
Partington, Hazel Alice	A 1.	University Place
Partridge, Edwin Maynard	CA 2.	Omaha
Partridge, Ruth	CA 1.	Minden
Pascale, Henry P	A 2, (S)	Omaha
Pate, Merl Sonderland	G.	Orleans
Pate, Walter Romny	Au, (S)	Alliance
Paton, Anne	A 4, T 4.	Fullerton
Patrick, Claude Bartlette	CA 4.	Lincoln
Patterson, Belle Clarence	Au.	Lincoln
Patton, Mildred Merle	A 4, (S)	Lincoln
Paul, Charles Eston	L 1.	Emerson
Paustian, Franz Henry	E 3.	Omaha
Payton, Edith	A 4, (S)	Lincoln
Payton, Edna Lee	A 2.	Lincoln
Pearce, Sidney John	CA 1.	Lincoln
Peard, Richard Harlan	CA 1, A 1.	Phillips
Pearson, Clara Helen	G, (S)	Wilcox
Pearson, Dorothy Lewis	A 1, (S)	Wakefield, Kans.
Peck, Helen Rodney	A 1.	University Place
Peck, Helene Dresser	A 4.	St. Paul, Minn.
Peebles, Nellie Elizabeth	CA 2.	Blair
Peery, Harriet Grey	Au.	Lincoln
Peery, Mildred Reed	A 2.	Lincoln
Pegler, Edna Charlotte	CA 1.	Lincoln
Pegler, Ethel Artha	A 4, T 4.	Lincoln
Pellatz, Orville L.	L 2.	Ceresco
Penney, Freeman Seth	A 1.	Fullerton
Perkins, Frank Sutfin	A 3.	Fremont
Perrin, Elizabeth Jewell	A 2.	Lincoln
Perrin, Otto K.	A 4, L 1.	Sargent
Perrin, Watt Willis	E 1.	Sargent
Perrine, Alma Leita	G, (S)	Mitchell
Perry, Claibourne Gordon	L 3.	Lincoln
Perry, Else Hawes	M 1.	Benson
Perusse, Francis Joseph	A 4, (4 yr. Pharmacy)	Lincoln
Peters, Matilda Katherine	CA 1, (Ex)	Lyons
Peterson, Aleda Sophia	Au, (FA)	Lincoln
¹ Peterson, Effie Emelea	Au, (Ex)	Oakland
Peterson, Huldah	CAu, (S)	Lincoln
Peterson, Ingman	E 1.	Marquette
Peterson, Oscar Theodore	E 4.	Beatrice
Peterson, Sigrid Matilda	A 2, (S)	Lexington

Peterson, Theodore Carl.....	G, E 4.....	Carter
Peterson, Thorwald Buel.....	E 2.....	Auburn
Peterson, Victor Emanuel.....	A 1.....	Valley
Petree, Leo Webb.....	A 1.....	Lincoln
Petree, Lou Estelle.....	A 2.....	Lincoln
Petring, Alfred William.....	E 1.....	Nebraska City
Petring, Catharine Isabel.....	CA 1.....	Nebraska City
Petring, George Kimmel.....	E 1.....	Nebraska City
Pettee, Warren Russell.....	E 3.....	Hickman
Petteys, Floyd Dudley.....	A 1.....	Shelby
Pettis, Marian Hebard.....	A 4, T 4, (S).....	Lincoln
Peyton, Wade Hampton.....	A 3, M 1, (Ex, S).....	Lincoln
Pfeiffer, Ernst.....	A 1, (S).....	Lincoln
Phares, Lewis Sheridan.....	E 4.....	Red Cloud
Pheasant, Lulu Luella.....	CA 1.....	Osceola
Phelps, Zanta.....	CA 3, T 3.....	Bladen
Phifer, Irene Elizabeth.....	A 1.....	Lincoln
Phillips, Blanch Rose.....	A 2.....	Walthill
Phillips, Hazle Virginia.....	CA 1, (SA).....	Walthill
Phillips, Homer Carpenter.....	E 2.....	Omaha
Phillips, Madeleine Frances.....	A 3, (S).....	Superior
Phillips, Murial Myrle.....	A 1.....	Superior
Philp, William Russell.....	Mu.....	Omaha
Philpott, Grace Woodman Gateley.....	Au, (S).....	Chadron
Philpott, Mayme Ethelyn.....	G, (S).....	South Omaha
Pickel, Robert McKinley.....	CA 1.....	Lincoln
Pickering, Doane Turner.....	A 1.....	Lincoln
Pickering, Leo Leonard.....	A 1, (2 yr. Pharmacy).....	Eustis
Pier, Harold Brockway.....	CA 4.....	Lincoln
Pier, Leta Etta Turner.....	CAu.....	Lincoln
Pier, Stanhope Reid.....	A 2.....	Lincoln
Pierce, Helen Kathryn.....	A 3, T 3.....	Harlan, Ia.
Pierce, James Herbert.....	E 2.....	Omaha
Pierce, Martha Lily.....	Au, (FA, S).....	Lincoln
Pierce, Winnie Eletca.....	A 1, (S).....	University Place
Pierson, Edith Anne.....	CA 1.....	Norwich, Conn.
Pike, Edith.....	Au, (S).....	Lincoln
Pike, James Edward.....	E 4.....	Stromsburg
Pinckney, Charles Edward.....	M 4.....	University Place
Piper, Lois Louise.....	A 2.....	Lyons
Plehn, Wallace Gehman.....	E 4.....	Scottsbluff
Plybon, Walter.....	G, (S).....	University Place
Poitevin, Marie Adelaide.....	CAu.....	Lincoln
Polk, John Lindsay.....	A 3, L 1.....	Louisville
Polsley, Lloyd William.....	A 1, (S).....	Wahoo
Pond, Sara Lou.....	A 1.....	Lincoln
Pool, Ella B.....	Au.....	Lincoln
Pool, Eva Eugenia.....	A 4, T 4, (S).....	Lincoln
Pope, Bessie B.....	A 4, T 4.....	Lincoln
Pope, Blanche Emily.....	A 3, (FA).....	Red Cloud

ROSTER OF STUDENTS

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Pope, Pearl Lucy	CA 4, (S)	Red Cloud
Pope, Ruth Margaret	CA 2	Lincoln
Porter, Dorothy Maud	G, (S)	Haigler
Porter, Grove Murray	CA 1	Nebraska City
Porter, Katherine Bell	Au.	Lincoln
Porter, Laura Alice	A 1, (FA, S)	Wilber
Porterfield, Harold Barry	A 1	Essex, Ia.
Posey, John Royal	CA 4, T 4, (S)	University Place
Poska, Sidney Charles	A 2, (S)	Lincoln
Posson, Rutherford Jay	CA 3	Hayes Center
Poteet, Marcus Louis	A 1	Pawnee City
Powell, Orlo Allen	E 1	Lincoln
Power, Julia Agnes	A 2, (Ex)	Atkinson
Power, Marschelle Harnley	A 1	Chickasha, Okla.
Powers, Clara Gladys	A 1	Falls City
Powers, Regina Mary	A 1	Flandreau, S. Dak.
Preece, Marion Cecelia	A 4	Battle Creek
Prey, Norma Betty	CA 1	St. Joseph, Mo.
Price, Harry Heffner	G	Aurora
Priesner, Wilhelmina Fredericka	Au, (S)	Lincoln
Priest, John Maxfield	L 3	University Place
Priest, Martha Marie	A 1, (S)	Lincoln
Prince, Harold Aubrey	L 2	Grand Island
Prokes, Sylvia	CAu	Schuyler
Prokop, Rudolf Victor	A 2, (S)	Wilber
Proskovec, Louis Anton	A 1, (S)	Bruno
Proudfit, Alice Juliet	A 2	Lincoln
Proudfit, Juliet Alice	A 2, (FA)	Lincoln
Provaznik, Hedvic Antoinette	A 2	Omaha
Prusa, Emil Joseph	A 1	Howell
Purdy, Leonard N	E 3	Beatrice
Purinton, Vivian Josephine	CA 2	Wilcox
Purney, James Francis	Mu	Rushville
Putnam, John Jacob	G	Lincoln
Putney, Lucy Boomer	Au	Lincoln
Pyle, Emma Rebecca	A 1, (S)	Hamlin, Kans.
Pyrtle, Emma Ruth	G	Lincoln
Quigley, Ruth	A 1	Valentine
Quinn, Gertrude Beatrice	A 1	Gothenburg
Quinn, Jesse H	A 3	Gothenburg
Quinn, Mary Veronica	Au, (S)	Fairbury
Quinn, Olive M	A 1	Gothenburg
Quivey, Lynn Arthur	A 4, (S)	Lincoln
Racely, George Andrew	A 4	Pender
Racely, Wilbur A	G	Pender
Radke, Franz Christopher	A 4, (S)	Wynot
Raecke, Walter Rudolf	A 1	Central City
Ramey, Harriet L	Au	Lincoln
Randall, Edna May	G, (S)	Oberlin, Kans.
Randall, Helen Elizabeth	A 3, (S)	Lincoln

Rands, Julia Frances	A 2, (S)	Lincoln
Range, Amelia Katharine	A 2	Lincoln
Rankin, James Henry	A 1, (S)	Cambridge
Rankin, Robert Lenocker	A 1	Cambridge
Rasmussen, Anton Peter	A 1	Lincoln
Rasmussen, John Peter	E 1	Oshkosh, Wis.
Ratcliff, John Anderson	G	Lincoln
Rathke, Bertha	A 3, T 3	Glenwood, Ia
Raver, Paul	E 2	Lincoln
Ray, John Edward	L 3	Geneva
Raymond, Dorothy	A 2, (FÄ)	Lincoln
Raymond, Hugh	CA 4	Norfolk
Reavis, David Dorrington, Jr.	A 4	Falls City
Reavis, Frank Charles	E 1	Falls City
Reckmeyer, Vida Eulalia	CA 1	Osceola
Redfern, Lee Willard	A 2	Peru
Reece, Everett Ellsworth	A 1	Shelby
Reece, Robert Clayton	A 1	Trenton
Reed, Edward Floyd	A 1, (Ex)	Milford
Reed, Frank John	E 1	Milford
Reed, Gertrude	Au	Milford
Reed, Hattie Belle	Au, (S)	Milford
Reed, Mabel Bertha	CA 1, (S)	Superior
Reed, Merrill Virgil	A 4	Lincoln
Reeder, Elma	A 2	Lincoln
Reeder, Lucile Haywood	CA 2, (Ex)	Columbus
Rees, Harry A	CA 1	Lincoln
Reese, Herbert Stockton	A 3, T 3	Randolph
Reeves William Marshall	G	Bethany
Reichenbach, Marie Hatfield	Au	Lincoln
Rein, Clifford Louis	L 2	Lincoln
Reinecke, Lloyd Francis	E 1	Schuyler
Reinsch, Frank Herman	G, (S)	Lincoln
Remp, Martin	G, (S)	Hastings
Renfro, Merrill Pink	E 2	Peru
Rettig, Damie Adeline	A 1	Axtell
Reusch, Julia Elizabeth Petronella	Au	Lincoln
Reynolds, Marion Colegrove	A 1	Tecumseh
Rhea, Vivian Martha	A 1	Arlington
Rhoden, Beulah Richard Harold	A 2	Lincoln
Rhodes, Leroy	E 3	Creighton
Rice, Effie Estelle	A 1	Lincoln
Rice, John Benjamin	CA 3	Norfolk
Rice, Louise Bessey	A 4, T 4	South Omaha
Rice, Opal M	A 1, (Ex)	Sterling
Rich, Della Mary	CA 1	Omaha
Richards, Beulah Blanche	A 2	Lincoln
Richards, Isaac Ray	CA 1	Lincoln
Richards, John Lowrie	A 3	Hebron
Richardson, Presstman Gardner	E 1	Broken Bow

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Richert, Ethel Freda.....	CA 1.....	Clay Center
Richey, Harry Wyatt.....	CA 4.....	Omaha
Ricker, James Bernard.....	CA 1.....	Red Cloud
Riesland, Clara May.....	A 1, (S).....	Lincoln
Rigdon, Harry Pryor.....	CA 2, (Ex).....	Fairbury
Riggert, Emma Myrtle.....	A 1, (S).....	Fremont
Riggert, Leonard Otto.....	M 1.....	Norfolk
Riggs, James Herbert.....	A 1.....	Waterloo
Riggs, Joy Alma.....	CA 1.....	Lincoln
Riley, Wilber Kirk.....	M 2.....	Wisner
Ringler, Frances.....	A 2.....	Lincoln
Ringwalt, Carr.....	A 1, E 1.....	Omaha
Ripperton, John Carson.....	G.....	Wichita, Kans.
Ripsom, Helen Gertrude.....	A 2.....	Lincoln
Riseley, Ina Edith Fay.....	Au.....	Lincoln
Rist, Lewis Boyd.....	CA 2.....	Humboldt
Ritchie, William, Jr.....	L 2.....	Lincoln
Roadifer, John Smith.....	A 1.....	Logan, Ia.
Roane, Ida Lucile.....	A 2.....	Lincoln
Robbins, Edyth Henrietta.....	A 3, T 3.....	Lincoln
Roberts, Paul Henley.....	CA 4.....	Maxwell
Roberts, Pearl Edith.....	CAu.....	O'Neill
Roberts, Warren Thomas.....	E 1.....	Oakland
Robertson, John Portious.....	A 2.....	Broken Bow
Robertson, Marie Magdalena.....	A 3, T 3, (S).....	Plattsmouth
Robey, Ora Gertrude.....	Au.....	Rising City
Robinson, Charles Clark.....	Mu.....	Fairmont
Robinson, Gale George.....	E 3.....	Lincoln
Robinson, Josephine Sara.....	Au.....	Lincoln
Robinson, Max L.....	Eu.....	Franklin
Rockie, Will Allen.....	CA 4.....	Fremont
Roddy, Mary Elizabeth.....	G, (S).....	Nebraska City
Rodgers, Clarence Edwin.....	Au.....	Osmond
Rogers, Bessie Eleanor.....	A 4, T 4.....	Randolph
Rogers, David Miles.....	G, (Ex).....	South Sioux
Rogers, Edward Alfred.....	A 3.....	Lincoln
Rogers, Edward Cook.....	A 1.....	Custer, S. D.
Rohde, Carl George.....	CA 4.....	Columbus
Rohr, Gladys Euseba.....	Au, (FA).....	Dustin
Rohrbough, Merrill Curtis.....	L 2.....	Omaha
Rohrer, Cora Ethel.....	A 3, T 3.....	Friend
Rohrer, Minnie Elsie.....	A 2.....	Friend
Rohwer, Albert.....	CA 1.....	Fort Calhoun
Rohwer, Clara Catherine.....	A 3.....	Fort Calhoun
Rokahr, Harry Carl.....	E 1.....	Lincoln
Rokahr, Herbert Frederick.....	E 1, (THS).....	Lincoln
Rokahr, Mary Ann.....	A 4, T 4, (S).....	Lincoln
Roland, Maud.....	Au.....	Bethany
Rolofson, Pearl.....	A 4, T 4.....	Lincoln
Romer, John Kresten.....	A 1.....	Blair

Romer, Peter Kofod.....	G, (S).....	Blair
Rood, Adelaide Clairssa.....	Au.....	Lincoln
Root, Jesse Marvin.....	E 1.....	Omaha
Rosenbaum, Harold Alvin.....	M 3.....	Harvard
Ross, Arthur J., Jr.....	M 1.....	Perry, Ia.
Ross, Clinton Thomas.....	A 4, L 2.....	Lincoln
Ross, Glen L.....	A 1.....	David City
Ross, Ralph Parson.....	A 3.....	David City
Ross, William Lytle, Jr.....	M 2.....	Omaha
Rouse, Nellie Rowena.....	Au, (FA, S).....	Lakefield, Minn.
Rouse, Philip Lambert.....	E 3.....	Peru
Rowe, Eva Margaret.....	A 1, (S).....	Lincoln
Rowell, Winifred Marie Peebles.....	G.....	College View
Rubelman, George Harold.....	CA 1.....	Tecumseh
Ruby, Glen.....	E 3.....	Lincoln
Ruch, Peter Bartholomew, Jr.....	Eu.....	University Place
Rudd, Leslie Reynold.....	E 4.....	Ong
Rudersdorf, Walter.....	CA 1.....	South Omaha
Rummons, Constance Juliet.....	A 2, (S).....	Lincoln
Runge, Lulu Lillian.....	G.....	Madison, Wis.
Runkel, Floyd Hottl.....	CA 1.....	Lincoln
Rupert, Walter James.....	CA 4, (Ex).....	Lincoln
Rusche, Carl Fred.....	A 1.....	Columbus
Rush, Beulah Adele.....	A 1, (FA).....	Lincoln
Rush, Harry Ernest.....	A 4, L 1.....	Rushville
Rush, Ruth.....	CA 1.....	Lincoln
Rushton, Arthur Lyell.....	CA 1.....	Omaha
Russel, Jouette Clark.....	G, (S).....	McPherson, Kans.
Russell, Herbert George.....	Au, (S).....	Imperial
Russell, Ira Eli.....	E 1.....	North Platte
Russell, Lillian Lucinda.....	CA 1.....	Fairbury
Rustin, Margaret Elizabeth.....	A 1.....	Omaha
Rutherford, Richard Burr.....	A 1, (S).....	Beatrice
Rutledge, Edward Markwood.....	G.....	Lincoln
Rutledge, Robert William.....	E 1, (THS).....	Omaha
Ryan, Clarke Leonard.....	E 2.....	Hastings
Ryan, Frank M.....	Lu.....	Omaha
Ryan, Herbert Wilson.....	Au.....	Omaha
Ryan, Nelle Mary.....	Au.....	Columbus
Rydborg, Carl Milton.....	CA 1, (Ex).....	Wood River
Rymal, Tammie Francenna.....	Au.....	Lincoln
Sabin, Hazel Musick.....	CA 1.....	Beatrice
Sackett, Emma Anna.....	A 1.....	Lincoln
Sadilek, Walter Byron.....	L 2.....	Wilber
Safarik, Lumir Robert.....	A 3.....	Schuyler
Sage, Earl Cuddington.....	M 2.....	Omaha
Salgren, Lydia Cerena.....	A 2.....	Kearney
Salisbury, Frederick Scott.....	M 1.....	Broken Bow
Salisbury, Grace Murray.....	G.....	Lincoln
Samuelson, Earl Newton.....	CA 3.....	York

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Samuelson, Leon William	L 2	Hildreth
Samuelson, Nannie Victoria	A 2	Lincoln
Sanborn, Verda Leota	CA 3, T 3	Gretna
Sanders, Ednah Lucile	A 1	Daykin
Sanders, Lucile Marie	A 1	Superior
Sanders, Mabel Romania	CA 1	Superior
Sandy, Charles Herbert	G, (S)	McPherson, Kans
Sandy, Florence	CA 1	Gretna
Sandy, Pink William	CA 3	Gretna
Sanford, Ruth Ashton	A 2	Omaha
Sanmann, Jerden Ferdinand	Lu	Diller
Sanmann, Louis Frederick	M 2	Diller
Sato, Nisa Faulkner	E 1	Nagoya, Japan
Saunders, Raymond June	A 1	Red Cloud
Saunders, Thad E	L 3	Beatrice
Savage, Frank Roland	Au	Lincoln
Savage, Howard Anthony	A 2	Atwood, Kans.
Savage, Lottie Luella	A 4, (S)	Atwood, Kans.
Saxer, Lucia Lenore	A 2	Mt. Clare
Saxon, Ruben Bryan	E 1	Lincoln
Schachterle, William	Au, (Ex)	Haxtum, Colo.
Schade, Arthur Lawrence	A 2	Lincoln
Schafer, Frank Oliver	E 1	Bruning
Schaper, William Chris	L 3	Mason City
Schaper, William Ferdinand	L 1	Havelock
Schaufelberger, Ernest Walter	A 1, (4 yr. Pharmacy)	Fairbury
Schaum, Lydia Louise	M 1	Waco
Schavland, Louise	A 2	Lincoln
Scheibel, Carl Abram	Au	Lincoln
Scheidt, John Henry	CA 1	Friend
Schembeck, Isaac S.	A 2	Lincoln
Schild, Lulu Mildred	A 1	Lincoln
Schink, Dominic Charles	E 4	Tilden
Schlachter, Henry	E 1	Beatrice
Schlesinger, Melvin Henry	A 2	Lincoln
Schlueter, Raymond Theadore	A 4, (S)	Lincoln
Schmale, Freda Louise	A 4, T 4	Lincoln
Schmalzried, Stampfer	E 1	North Platte
Schmidt, Arthur Charles	L 1	Madison
Schmidt, Edward John	A 2	College View
Schmidt, Nelda A.	G, (FA, S)	Lincoln
Schofield, Charles Edwin	A 1	Fort Collins, Colo.
Schofield, Leah	CA 3	Lincoln
Scholten, William	M 4, (Ex, S)	Lincoln
Schott, John Edward	A 4	Silver Creek
Schreckengast, Joy Ruth	G, (FA, S)	University Place
Schreier, Oscar Peter	E 1	Verdigre
Schroeder, Fred James	A 4, L 1	Eustis
Schulte, Clara Barbara	A 1	Elgin
Schulte, Cornelius John	CA 4, (SAs)	Lincoln

Schulte, Julia Catherine	A 2	Elgin
Schulte, Mary Anna	G	Lincoln
Schulte, Regina Bernardine	G, (S)	Lincoln
Schultz, Minnie Marie	A 4, T 4	Louisville
Schumacher, Henry Cyril	A 1	Humphrey
Schumacher, William Alfred	E 1	DeWitt
Schwab, Harold Jacob	A 2	McCook
Schwab, Harry	A 3, (S)	Osceola
Schwab, Helen Louise	A 2	McCook
Schwake, Mabel Essert	A 1, (THS)	Hickman
Schwarz, Arthur Gustav	A 1	Sutton
Schwenker, Harold Lee	A 1	Western
Schwerin, Emma Mary	Au	Belden
Schweser, Carl Edward	CA 1	David City
Scott, Clifford Bryan	L 1	Rushville
Scott, Everett B	CA 2	Kearney
Scott, Helen	CA 1	Beatrice
Scott, Letha Pearl	A 2	Lincoln
Scott, Mary Elizabeth	A 4	Ashland
Scott, Wardner Gibson	A 1	Lincoln
Scoville, Mildred Clare	A 4	Hartington
Scoville, Ralph John	L 2	Hartington
Scribner, Gertrude	A 3, T 3	Lincoln
Scriven, Dee Matthias	G, (Ex)	Lincoln
Scriven, Eva Louise	CAu	Mitchell
Scroggin, Doris Eliza	A 1	Oak
Scroggin, John Leonard	Au	Oak
Seacrest, Frederick Snively	A 1	Lincoln
Sealey, Henry Jephtha	G, (S)	Lincoln
Sears, Paul Bigelow	G	Bucyrus, Ohio
Seaton, Lawrence Floyd	G	Lincoln
Seeger, Geneva Pauline	CA 1, (THS)	Lincoln
Seeger, Winifred	A 3, T 3	Lincoln
Selzer, Milton Roy	A 1	Nebraska City
Severin, Cora Matilda Butte	Au, (S)	Lincoln
Seymour, Jane Bawden	A 4, (S)	Lincoln
Shaboub, Joseph	A 1	Lincoln
Shade, Lula	A 1	Hebron
Shakarian, Varsenig Margurita	Au, (FA)	Norfolk
Shanafelt, Otis Guy	G	Lincoln
Shanek, Bertha	G, (S)	Odell
Sharp, Harry Lee	Mu	Sioux City
Sharp, Marlay A	CA 3	Hebron
Shaw, Arlette Jane	Au	Lincoln
Shaw, Leah Britomart	A 1	Osceola
Shaw, Marion Ansley	L 1	Osceola
Shaw, William Harrison	E 4, (S)	Adams
Shea, Willa Lucile	A 1	Raymond
Sheer, Caroline Annie	CA 1, (S)	Nebraska City
Sheils, Iloa Jay	CA 1	Scottsbluff

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Sheldon, Georgia May	A 2	Lincoln
Sheldon, Isadore	A 2	Nehawka
Sheldon, Mary Frances	A 1, (S)	Lincoln
Sheldon, Philip Lysle	Au	Lincoln
Shepherd, Gertrude Elizabeth	A 1, (S)	Lincoln
Shepherd, Helen Curtiss	A 2,	Lincoln
Shepherd, Joseph Benjamin	CA 1.	Lincoln
Shepherd, Tryon Mason	A 4, T 4, (S)	Lincoln
Shepherd, William	M 2	Rulo
Sherer, Charles Robert	A 1.	Red Cloud
Sherry, Ralph Munroe	A 1, (4 yr. Pharmacy)	Elgin
Sherwin, Margaret Gladys	CA 1.	Lincoln
Sherwood, J. Harvey, Jr.	Lu	Oxford
Sherwood, Phil Sheridan	E 3.	Red Cloud
Sherwood, Raymond Gessell	M 1.	Rogers, Ark.
Shields, Paul Levere	CA 1, E 1.	South Omaha
Shimerda, Frank	A 1.	Beatrice
Shirey, Raymond William	A 4.	Lincoln
Shoemaker, David Arthur	CAu	Lincoln
Shoemaker, Edward Joseph	L 1.	Sidney
Shoemaker, Evalyn	Au, (S)	Chapman
Shonka, Rose Amelia	CA 4.	Schuyler
Shoop, Marie Hildegard	A 3, T 3.	Lincoln
Shores, Ward Adrian	A 1.	Utica
Short, Mamie Frances	G.	Lincoln
Showalter, Donald Fox	A 1, (Ex, S)	Davenport
Shue, Harriet Hazel	A 4, T 4.	Beaver City
Shultz, Henry Jacob	A 3.	Stanton
Shumway, Howard Paine	G, A 4, (S)	Wakefield
Shutt, Roscoe E.	CA 2.	Lincoln
Sides, Frank Maxwell	A 2.	Dakota City
Sigworth, Dwight Chace	M 1.	Stanton
Silver, Myra Esther	A 2.	Lincoln
Sim, Sarah Elizabeth	A 2.	Nebraska City
Simmons, Florence Gladys	A 2.	McCook
Simmons, Robert Glenmore	L 2.	Scottsbluff
Simon, Samuel	A 1.	Lincoln
Simonson, Adella Maxine	CA 1.	Cozad
Simpson, Lillian Muriel	A 1.	Lincoln
Simpson, Merle Mae	A 4, T 4, (S)	University Place
Simpson, Otis Earl	A 4, T 4.	Wahoo
Sinamark, Andrew	M 2.	Fremont
Sinclair, Sadie Edna	A 1.	Lincoln
Singer, Hortense Gundersheimer	Au.	Lincoln
Singer, Jacob	G.	Lincoln
Sinkie, Otto August	L 1.	Duncan, S. Dak.
Sipes, Ada Blanche	A 4, T 4.	Bethany
Sisler, Rebanis	M 2.	Geneva
Sixta, Editha Bem	A 2.	Schuyler
Sjogren, John Wilhelm	CA 2,	Funk

Sjogren, Oscar Warner	E 3	Lincoln
Skinner, Lewellyn Terry	G, CA 4	Lincoln
Skudrna, Anton William	CA 1	Lincoln
Slack, Leslie Eugene	A 2, (FA)	Oconto
Slater, Doris Bessie	A 2	Lincoln
Slaughter, Walter Dane	A 2	Endicott
Sleeth, Earle Campbell	CA 4	Endicott
Sloan, Charles Porter	CA 3	Geneva
Sloat, John Burget	A 3	Harvard
Sloniger, Inez	A 4, T 4	Lincoln
Slothower, Earl Harrison	CA 1	Elmwood
Smith, Alvin C.	E 4	Lyons
Smith, Bernard Guy	E 2	Wisner
Smith, Chauncey William	CA 4, (S)	Laurel
Smith, Clarence Sylvester	E 1	Aurora
Smith, Clemie Cynthia	A 1, (S)	North Bend
Smith, Dawn Blanche	Au.	Lincoln
Smith, Esther Madeline	A 2	Lincoln
Smith, Floyd Albertson	A 1	Fremont
Smith, Frances Keniston	A 4, T 4	Omaha
Smith, Gladys Mary	A 4, T 4, (S)	Lincoln
Smith, Helen Whorton	CA 1	Hoagland
Smith, Howard S.	CA 2	Madison
Smith, Irwin Fish	E 2	North Bend
Smith, Jay	G, (S, Ex)	Council Bluffs, Ia.
Smith, Jean Conley	Au.	Lincoln
Smith, Joseph Earl	G	East Enid, Okla.
Smith, Lillian	CAu	Fairburn, S. Dak.
Smith, Louberta J.	G	Lincoln
Smith, Margaret J.	G, (S)	Lincoln
Smith, Mary Ruth	A 1	Polk
Smith, Nellie Rosella	G, (Ex, S)	College View
Smith, Paul Homer	E 1	Lincoln
Smith, Raymond Albert	A 4, L 1	Lincoln
Smith, Raymond Oliver	CA 3	Blair
Smith, Rollin Victor	Au.	Lincoln
Smith, Villiers Deaver	A 4, L 2	Beaver City
Smith, Walter Irvine	G, (S)	College View
Smrha, Albert Michael	A 4, L 1	Milligan
Snell, Hazel Frost	G (FA, S)	Lincoln
Snyder, Kenneth McGlaughlin	A 3	Lincoln
Snyder, Leon Henry	A 3	Alma
Snyder, Lloyd Earl	E 1	Lincoln
Snyder, Rosa Emeline	A 2, (S)	Pueblo, Colo.
Snyder, William Kenneth	CAu	South Omaha
Sohl, Lulu Hulda	A 1, (S)	Lincoln
Sorensen, Christian Abraham	L 2	Boelus
Sorenson, Helen Brown	A 4	Omaha
Sothman, Alma	A 2, (S)	Lincoln
Southwell, Fay	Au, (S)	Maitland, Mo.

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Southwell, Fred Bryan.....	A 1.....	Maitland, Mo.
Southwell, Horace C.....	E 1.....	Gering
Southwick, Philip Orin.....	A 3.....	Lincoln
Sowell, James William.....	G, (S).....	Omaha
Spafford, Russell Richard.....	CA 4, (S).....	Falls City
Spalding, Charles Spurgeon.....	E 1.....	Osceola
Spalding, Mary Louisa.....	Au.....	Lincoln
Spanton, Mabel Norine.....	A 2, (S).....	South Omaha
Spaulding, Caryl.....	A 2.....	Gothenburg
Spaulding, Thankful Elizabeth.....	G.....	Lincoln
Specht, Arnold Otto.....	Mu.....	Syracuse
Spellman, May Ellen.....	A 1.....	Martel
Spencer, Guy Louis.....	Mu.....	University Place
Spencer, Percy Craig.....	L 1.....	Omaha
Spier, Clarence Thompson.....	L 1.....	Omaha
Spieth, Benjamin S.....	E 2.....	Mitchell
Spirk, Victor Martin.....	L 2.....	Wilber
Spohn, Don Vilas.....	CA 2.....	Superior
Spooner, George Ashton.....	E 3.....	Council Bluffs, Ia.
Springer, Helen Luree.....	A 4, T 4.....	Lincoln
Sprouse, Albert David.....	G, (S).....	Lincoln
Spurrier, Jessie E.....	Au.....	Bethany
Squair, Margaret Isabell.....	A 1, (FA).....	St. Edward
Squires, Ruth Madeline.....	A 4, T 4.....	Ord
Staads, Anna Clara.....	A 2.....	So. Sioux City
Staats, Roy William.....	A 1.....	Fremont
Stanley, Kathryn Lucille.....	A 2.....	Ashland
Stanley, Lamar Rush.....	A 4, (S).....	Aurora
Stannard, Mary Jane.....	A 1, (S).....	O'Neill
Starr, Ira Burnett.....	E 1.....	Lander, Wyo.
Starrett, Esther Miriam.....	A 3.....	Lincoln
States, Margaret Lytle.....	A 1, (FA).....	University Place
Stebbins, Guy Lavern.....	A 3.....	Gothenburg
Stebbins, Verna Adelle.....	CAu.....	Gothenburg
Steele, Guy Fox.....	CA 2.....	Douglas
Steele, Robert Edwin.....	CA 3.....	Kansas City, Mo.
Steenburg, Edmund Kenneth.....	A 2.....	Aurora
Steidl, Irene Lucile.....	A 3.....	Crete
Stejskal, Eleanor Normah.....	A 1, (S).....	Wilber
Stenger, Cecilia Caroline.....	G.....	Columbus
Stephens, Estella Bell.....	CA 3.....	Fremont
Stephens, Lamont Levern.....	L 3.....	Rockville
Stephens, Mary Dorothy.....	CA 1.....	Long Beach, Calif.
Stephenson, Annie Eliza.....	Au.....	Lincoln
Stephenson, Ruth Cleveland.....	CAu, (Ex).....	Clay Center
Sterba, Vlasta Louise.....	A 4, (S).....	South Omaha
Sterne, Mabel Henrietta.....	CA 3, T3.....	Grand Island
Sterrett, Walter Brooks.....	G, (S).....	Lincoln
Stetson, Vivian Fay.....	A 2, (S).....	Lincoln
Stetter, Ruth Eleanor.....	A 3.....	Valentine

Stevens, J. Donald	A 1	Beatrice
Stevens, Leslie Clark	G	University Place
Stevens, Norman Wolfer	A 1	Beatrice
Stewart, Cloyd LeVerne	L 2	Lincoln
Stewart, Donald Warner	L 2	Lincoln
Stewart, Gertrude Sophia	CA 1, (Ex, S)	Valparaiso
Stewart, Grace Darling	Au	Seward
Stewart, Paul Hesden	CA 2	Kennard
Stewart, Russell Alden	CA 2	University Place
Stibal, Thomas	A 3	Richland
Stidworthy, Helen Mae	A 1	Homer
Stilgebouer, Bernice Lorean	A 1	Bartley
Stimson, Bess Maynon	CA 3, T 3	Pawnee City
Stimson, James Miller	G, (S)	Pawnee, Okla.
Stivers, Madeleine Gladys	A 4, T 4, (S)	Lincoln
Stockdale, Alva Percy	A 3	Chadron
Stockwell, Edward Dana	Eu	Lincoln
Stoddard, Glenn Earl	A 3	Rising City
Stoddart, John Bergman	A 1	Lincoln
Stokke, Dean Emil	Eu, (Ex)	Lincoln
Stoll, Maude Alberta	A 1, (S)	Beatrice
Stone, Elton Elwood	A 2	Lyons
Stone, Ethel	A 1	Lincoln
Stone, Winfield McCrullus	CA 1	Nebraska City
Stonecypher, David Daniel	A 1	Lincoln
Stoner, Walter Welles	G, (S)	York
Stonesifer, Edwin John	CA 1	Lincoln
Storey, Vernon Madelaine	Au, (Ex)	Red Cloud
Storm, Ruth	A 2	Lincoln
Stout, Richard Forbes	L 3	Lincoln
Strejc, Minnie Pauline	Au, (Ex, S)	Greenwood
Strieter, Fred Lorenz	A 2	Seward
Strieter, Ottomar George	A 2, (Ex)	Seward
Stuart, Dale Kay	Mu	Stuart
Stubbs, Allan Hugh	E 1	Lincoln
Stuby, Helen Louise	A 2	Lincoln
Stuckey, Jake Joseph	CA 2	Broken Bow
Stuff, Freda Naomi	A 3, T 3	Lincoln
Stuff, Frederick Ames	G	Lincoln
Stuftt, Clella	A 2	Fairfield
Stuftt, Vera Leah	A 2	Fairfield
Stults, Beth Lucile	Au	Lincoln
Sturdevant, Lazelle Brantley	G	Lincoln
Sturdevant, Olivia Zoe	A 4	Atkinson
Sturdevant, Roger Edward	Mu	Osceola
Sturges, George William	L 1	Sioux City, Ia
Sturm, Gertrude	A 4	Nehawka
Sturm, Victor Andrew	A 4, L 1	Nehawka
Sturmer, Anna Marie	Au, (THS)	Jansen
Sturmer, Mary Anna	A 1, (S)	Jansen

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Stutt, Aden Frederick	CA 2	Avoca
Stuve, Paul Frederic	E 1	Sterling
Sublette, Jeannette Estelle	G, A 4, (S)	Shelton
Sublette, William Henry	CA 1	Nebraska City
Sucha, Edward Vladimir	E 1	Verdigre
Suhr, William	Lu	Lincoln
Sullivan, George Arthur	E 1	Grand Island
Sullivan, Theodore Joseph	E 4	Central City
Sumner, Lulu Tracy	Au	Lincoln
Susman, Sievers Whitehead	A 2	Omaha
Swanson, Henry Albin	A 1	Loomis
Swanson, Irene Naomi	A 2	Funk
Swarr, David Witmyer	L 2	Lincoln
Swartzlander, Fredericka	A 2	Omaha
Swatek, Clara Elizabeth	A 2	Lincoln
Swaynie, Merwin Shartle	A 1	Arcadia
Sweeney, Roger	E 3	Lincoln
Swenk, Iva Beatrice	A 4, T 4	Lincoln
Swenson, Axel Richard	A 1	Oakland
Swenson, Martina Caroline	A 3, T 3	Oakland
Swift, Russell Freeman	L 2	Harlan, Ia.
Swoboda, Agnes	A 1, (Ex, S)	Wilber
Taft, Harold E	CA 2	Norfolk
Talbot, John Edgar	G, (S)	Fairfield
Talbot, Robert Harris	A 2	Lincoln
Talcott, Vernon Vivaldo	M 1, (S)	Crofton
Tawney, Barbara	A 1	Fremont
Taylor, Burke Wilverton	A 2	Lincoln
Taylor, Darle May	A 3, (S)	Belvidere
Taylor, Elbert Lloyd	CA 3	Belvidere
Taylor, Florence Ruby	A 2	Lincoln
Taylor, Fred Lee	CA 2	Broken Bow
Taylor, James Henry	A 1	Havelock
Taylor, Lloyd Sherwood	A 1	Steele City
Taylor, Lola Mulnix	G, (S)	Lincoln
Taylor, Max William	A 1	Lincoln
Taylor, Orlando P	A 1	Clay Center
Taylor, Otis Ellery	A 3	Madison
Taylor, Ralph Lock	E 1	Omaha
Taylor, Sarah Elizabeth Smith	G	Lincoln
Taylor, Vantrese LaFayette	E 1	Lincoln
Teach, Charles Elden	G	University Place
Tell, Arthur William	E 1, (Ex)	Dunbar
Temple, Harold Lee	A 3	Lexington
Temple, Paul Nathaniel	A 2	Lexington
Teply, Fred	CA 1	Clarkson
Tewksbury, Edith Frances	A 4, T 4	Lincoln
Tewksbury, Marie Cecil	A 4, T 4	Lincoln
Thatcher, Guy Clifford	E 2	Butte
Thatcher, Wendell Davis	A 1, (2 yr. Pharmacy)	Gibbon

Theisen, Henry, Jr.	A 3	West Point
Theisen, Ralph Leroy	A 1	West Point
Therkelsen, Carrie Chmelka	A 4, T 4, (S)	Lincoln
Thiel, Leo Francis	G	College View
Thomas, Anson John	CA 1	St. Edward
Thomas, Bernice Ada	A 3, T 3	Omaha
Thomas, Clyde Samuel	A 4, M 2, (S)	Benson
Thomas, Harold Richard	A 1	Omaha
Thomas, Harry Neilson	CA 3	Lincoln
Thomas, Helen Beck	CA 2	Tekamah
Thomas, James Lloyd	G	Lincoln
Thomas, Lyman Hueston	E 1	Omaha
Thomas, Nathan Boynton	A 1	Lincoln
Thompson, Benjamin Harrison	CA 2	Lincoln
Thompson, Bessie Enyeart	Au	Lincoln
Thompson, Guy G.	Eu	Falls City
Thompson, Harry Landis	G	Lincoln
Thompson, James Cail	E 3	Northville, S. Dak.
Thompson, John Clark	A 2	Sutton
Thompson, Kenneth Levi	A 2	West Point
Thompson, Mabel Pearl	CA 1	Madison, S. Dak.
Thompson, Richard Yoder	A 3	West Point
Thompson, Robert George	A 1	Omaha
Thompson, Thomas Charles	E 1	North Platte
Thomson, Ray Thomas	A 3	Orchard
Thornton, Edwin Chester	A 1	Fremont
Thornton, Ray Ballou	A 3, T 3 (S)	Neligh
Thurber, Francis Henry	G	Lincoln
Tierney, Florence Loretta	Au (FA, S)	Lincoln
Tierney, Luella Rose	Au	Lincoln
Tinklepaugh, Verna Viola	Au (Ex)	Lincoln
Tippet, Charles Emery	E 2	Lincoln
Todd, Willson Grant	A 1	Omaha
Toland, Blanche Viola	Au	Lincoln
Tolles, Martha Fae	A 3 (S)	Laurel
Toney, Perry Sylvester	E 4	Omaha
Toogood, Caroline Marie	Au (S)	Crete
Totman, Corliss Darwin	Mu	Lincoln
TouVelle, Guy Theophilus	L 2	Lincoln
Towle, Maxwell Getty	A 2, L 3	Lincoln
Towne, Charles Cuyler	E 2	Wood River
Townsend, Bernard John	A 1 (FA)	Howard
Townsend, Clauddie Cornelia	Au	Lincoln
Tracy, Emma Ruth	A 1	Greeley
Tracy, Margaret Loretto	A 1	Greeley
Traphagen, Charles Vance	A 1	Lincoln
Traub, William Charles	A 2, L 3 (S)	Gordon
Travis, Oscar LeRoy	A 3	Ord
Trehearne, Theodosia	Lu	Beaver City
Tremain, Mary Adell	G	Lincoln

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Trimble, Chandler.....	L 3.....	Omaha
Troup, Ramona.....	A 2 (S).....	Lincoln
Troup, Wallace Burns.....	A 4 (S).....	Omaha
Trowbridge, Albert Edward.....	A 1.....	Elgin
Truax, Ralph Elbert.....	A 4 (S).....	Lincoln
Truman, Rex.....	CA 3.....	Peru
Trumbull, Fred Robert.....	CA 4.....	Lincoln
Tschauner, Artemus A.....	A 2.....	Osceola
Tucker, Orrin Otis.....	E 1 (THS).....	Lincoln
Tully, Edith Elgin.....	CA 1 (S).....	Lincoln
Tunks, Glen Vern.....	E 4.....	Central City
Turner, Benjamin Harrison.....	A 1 (Ex, S).....	Lincoln
Turner, Harriet Marie.....	A 3, T 3.....	Lincoln
Tuthill, Frances Marion.....	A 3.....	Creighton
Tyler, Varro Eugene.....	A 4, L 1.....	Auburn
Tym, Norris H.....	L 2.....	Omaha
Ufford, Sarah Dellight.....	CA 1.....	Moffitt
Undeland, Jennie Marguerite.....	A 1.....	Omaha
Underwood, Clinton Brooks.....	L 3.....	Omaha
Underwood, Ruth Lena.....	A 3 T 3.....	Lincoln
Undine, Clyde Albert.....	M 2.....	Minneapolis, Minn.
Unland, Lottie Marie.....	CA 1.....	Lincoln
Unruh, George Overton.....	G (S).....	Blair
Updegraff, Howard Leighton.....	A 1 (THS).....	Omaha
Urbach, William Fred.....	Au.....	Lincoln
Vail, Nellie Antoinette.....	G.....	Lincoln
VanBoskirk, Robert Hayden.....	A 2.....	Lincoln
Vance, Amos Milton.....	G (S).....	Emerson
VanDriel, Agnes Cecelia.....	A 3.....	Malmö
VanDriel, Gertrude Regina.....	A 4.....	Malmö
VanDriel, Julia Helen.....	A 4 (S).....	Malmö
Vankirk, Mary S.....	CA u.....	Wickatunk, N. J.
VanMeter, Garrett Edwin.....	A 2.....	Lincoln
VanMiddlesworth, Edith Adella.....	G.....	Peru
Vasey, Charles Clarmont.....	CA 1.....	Liberty
Vasey, Harvey Elmer.....	G.....	Liberty
Vaughan, Henry.....	E 2.....	Lincoln
Veghte, Gladys Adaline.....	A 4, T 4 (S).....	Lincoln
Veit, Carl Ernest.....	A 1, E 1, (THS).....	Grand Island
Vequist, David George.....	CA 3.....	Ray
Verges, Marie Luise.....	Au.....	Norfolk
Vida., Eugene L.....	E 2.....	Madison, S. D.
Vig, Bennett Christensen.....	A 1.....	Blair
Virginia, Sister Mary.....	Au (S).....	Hastings
Vogel, Irvin Henry.....	CA 1.....	Florence
Vosacek, Frank Richard.....	G (Ex).....	South Omaha
Vose, Leonard Owen.....	CA 1.....	Sargent
Vrana, Edward Henry.....	E 4.....	Omaha
Wachter, Roland John.....	E 2.....	Lincoln
Wade, Merle Elwood.....	L 1.....	Lincoln

Wagey, Pearl Alice.....	G (S).....	Cambridge
Wagner, Irvin Sylvester.....	A 1.....	Rockport, Mo.
Wagner, Ona Ruth.....	A 3, T 3.....	Ithaca
Wagner, Ralph Patterson.....	E 4.....	Beatrice
Wagner, Roy Edward.....	E 1.....	Tilden
Waite, Dorothy Olivia.....	A 3, T 3.....	Lincoln
Waite, Edgar J.....	E 2.....	Lincoln
Waldmann, Louis Francis.....	A 1.....	Lincoln
Walker, Arthur Bruce.....	G.....	University Place
Walker, Beth.....	A 1.....	Douglas
Walker, Earl Fiske.....	G.....	University Place
Walker, E. Lucile.....	CA 1 (S).....	Dunbar
Walker, Edson Ozro.....	E 4 (S).....	Cedar Bluffs
Walker, Florence.....	G.....	University Place
Walker, Glen Alan.....	G, E 4.....	Lincoln
Walker, Harold Hill.....	A 3.....	Mason City
Walker, Leva Belle.....	G.....	Lincoln
Walker, Louisa Viola.....	G, A 4, T 4.....	Lincoln
Walker, Lowell Lampert.....	L 3.....	Lincoln
Walker, Susie A.....	A 1 (FA, S).....	Lincoln
Wallace, Dorothy E.....	A 2.....	Lincoln
Wallace, Helen Margaret.....	G.....	Lincoln
Walrod, Guy William.....	E 1.....	Bradshaw
Walsh, Anastasia.....	Au (Ex).....	Missouri Valley, Ia.
Walter, Joseph Jesse.....	A 1.....	Wahoo
Walvoord, James Henry.....	A 1 (S).....	Holland
Walvoord, William W.....	M 2.....	Holland
Wanner, William Ballou.....	A 2.....	Falls City
Ward, Bryan Charles.....	A 1.....	Clarks
Ward, Ida Amine.....	A 4, T 4.....	Litchfield
Ware, Arthur Hale.....	L 2.....	Lincoln
Waring, Robert Bennett.....	A 1.....	Geneva
Warner, Ada M.....	A 1 (FA).....	Beaver Crossing
Warner, Estella Ardis.....	CA 1.....	Roca
Warner, Esther.....	G (S).....	Lincoln
Warner, Philip Augustus.....	E 1.....	Bethany
Warner, Ruth Ashley.....	M 3.....	Lewellen
Warren, Ruth Easterday.....	CA 2.....	Lincoln
Warwick, Charles William.....	G (S).....	Oakdale
Washburn, Bertha May.....	Au.....	Lincoln
Waters, Nancy Melvina.....	A 4, T 4.....	Elmwood
Watkins, Dudley Ward.....	E 3.....	Lincoln
Watkins, Marian.....	A 1.....	Lincoln
Watkins, Phillip.....	A 1.....	Lincoln
Watson, Jesse Burt.....	A 1.....	Plainview
Watson, Lloyd Arthur.....	CA 1.....	Wood River
Way, Charles Willard.....	M 1 (S).....	Wahoo
Way, James Lawrence.....	E 1.....	Wahoo
Weaver, Doris Adline.....	A 1.....	Norfolk
Weaver, Kenneth Horton.....	Au (Ex).....	Raymond

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Webb, Adin Hilton	M 2	Omaha
Webb, John Wheadon	CA 2	Tecumseh
Webb, Ruth	A 3	Vesta
Webber, Mabel Roena	CA 2	Orleans
Weber, Chris Oliver	A 2	Friend
Weber, Clarence Raymond	CA 3	Tecumseh
Webermeier, William John	CA 2	Milford
Weeks, David Parker, Jr.	E 3	Lincoln
Weeks, Roswell Stanley	CA 1	Pawnee City
Weesner, Genevieve	CA 2	Lincoln
Wehrs, Lucile Amelia	Au (S)	Milford
Weigand, Guy L.	A 2	Lincoln
Weil, Gladys	A 3, T 3	Lincoln
Weinard, Frederick Francis	CA 2	Lincoln
Weiss, Mollie Louise	G	College View
Weiss, Walter Clatus	L 3	Hebron
Welch, Gertrude Frances	A 1	Shenandoah, Ia.
Welch, Leslie Andrew	L 3	Wayne
Welden, Lelia	A 2 (FA, S)	Lexington
Wellhausen, Bertha Gerhardine	A 3, T 3 (Ex)	Norfolk
Wells, Frederick Nichols	A 2	Lincoln
Wells, Stiles Sherman	CA 2	Lincoln
Welsh, Genevieve	A 1	Central City
Wenke, Henry George	E 2	Pender
Wertz, Cyril J.	E 1	Richland
Wertz, Leland E.	A 1	Star
Weseen, Maurice Harley	A 4, T 4	Oakland
Weseen, Mildred Jennie	A 1 (Ex)	Oakland
Wessberg, Abner J.	A 1	North Platte
West, Grace Edith	Au	Lincoln
Westberg, Ethel Beatrice	A 3, T 3	Osceola
Wester, Eula Dolores	A 3 (Ex, S)	Papillion
Westfall, McKendree Hayes	Mu	Lincoln
Westling, Lester Leon	E 2	Fairbury
Weston, Sarah Kent	A 1	Beatrice
Westover, Bernard Galen	L 2	Rushville
Westover, Raymond Paschal	A 3	Rushville
Westover, Richard Van	E 2	Lincoln
Westover, Will Henry, Jr.	E 1	Rushville
Wetherbee, Harlow Frank	E 1	Beatrice
Weyl, Leon H.	CA 3	Trenton
Wharton, Estelle	A 1	Lincoln
Wharton, Hazel	CA 1	Lincoln
Wheeler, Esther Belle	A 1	Marceline, Mo.
Wheeler, Janet Lucile	CA 3	Lincoln
Wherry, Kenneth Spicer	A 4, L 1	Pawnee City
Whisenand, James Wilbur	CA 4	Harvard
Whisenand, Stephen Harold	CA 3	Harvard
Whisler, Verna Charlotte	Au	Lincoln
Whitecomb, Douglas Darwin	Lu	Lincoln

Whitecomb, Lila Caroline.....	Au.....	Lincoln
Whitecomb, Rolland Burke.....	A 1.....	Lincoln
White, Bonita.....	A 2.....	Lincoln
White, Helen Ida.....	A 2.....	Edgemont, S. Dak.
White, Leon H.....	A 1.....	Ashland
White, Louise Frances.....	A 2.....	Rockford, Ill.
White, Shelly Perry.....	L 2.....	Omaha
Whitehead, Lucretia Fleming.....	G.....	Denver, Colo.
Whitfield, Harold Barnard.....	E 1.....	Lincoln
Whitfield, Marion Elizabeth.....	A 1 (FA).....	Lincoln
Whitford, Arley Claude.....	G.....	Lincoln
Whitmore, Burton Canfield.....	E 2.....	Valley
Whitmore, Ruth Irene.....	A 1 (FA).....	Valley
Whitnah, Mark Evans.....	CA 3.....	Grand Island
Whyman, Lawrence Oliver.....	A 1.....	Omaha
Wickett, Eleanor Maude.....	CA 1.....	Laurel
Wickland, Arthur Julius.....	G (S).....	River Falls, Wisc.
Wickland, Lawrence Andrew.....	CA 3.....	Valley
Wickland, Normie Clarence.....	CA 4.....	Valley
Wickstrum, Parker Marion.....	A 3.....	Lincoln
Wiedman, Earl Vernon.....	A 2.....	McCool Junction
Wiese, Bertha Margaretha.....	A 4, T 4.....	South Omaha
Wiese, Emma Johanna.....	CA 1.....	Hull, Ia.
Wiese, Hertha.....	A 3.....	Avoca, Ia.
Wiest, Vern Mont.....	A 1.....	Swanton
Wilcox, Marion Rebecca.....	Au.....	Lincoln
Wild, Idyl Gladys.....	A 2.....	Wilber
Wildhaber, William Tell.....	M 1.....	Plymouth
Wildish, Florence Helen.....	CA 1.....	Aurora
Wilhelmson, Emma.....	G (Ex).....	University Place
Wilke, Charlotte.....	G (FA, S).....	Lincoln
Wilkinson, Constance Wenona.....	G (S).....	Lincoln
Wilkinson, Gladyce Bernice.....	A 2.....	Lincoln
Williams, Delbert Waldo.....	A 4.....	College View
Williams, Edith Blanche.....	G (S).....	Lincoln
Williams, Ella Adelia.....	A 2.....	Lincoln
Williams, Frank Dean.....	L 3.....	Lincoln
Williams, Guy Harry.....	L 3.....	Lincoln
Williams, Harry Roy.....	Au.....	Lincoln
Williams, Hattie Plum.....	G.....	Lincoln
Williams, Henry W.....	CA 1.....	Lincoln
Williams, James Edwin.....	CA 1.....	Raymond
Williams, Lyman Tupper.....	CA 3.....	Omaha
Williams, Mary Elizabeth.....	A 1.....	Gretna
Williams, Mildred Carnahan.....	A 4, M 4.....	York
Williams, Rae Covey.....	Au.....	St. Paul
Williams, Rosalie.....	A 1.....	Ord
Wills, Alice Marina.....	A 1.....	Butte
Wills, Lyman Treglone.....	A 1.....	Butte
Wills, Robert Leroy.....	A 3.....	Butte

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Willson, Beryl Eolas	CA 1	Wisner
Wilsey, Rex Bishop	G	Tecumseh
Wilson, Alva	CAu (Ex)	Morris, Minn.
Wilson, Andrew Conland	A 1	Lincoln
Wilson, Anne Mildred	A 4 (S)	Lincoln
Wilson, Arthur Phillip	A 3	Columbus
Wilson, Bertha Jeannette	CA 4, T 4 (S)	Raymond
Wilson, Clara Owsley	G	Lincoln
Wilson, Everett C	L 2	David City
Wilson, Howard Stebbins	A 1	Lincoln
Wilson, Hugh Carter	L 1, A 3	Lincoln
Wilson, Hugh Claire	A 1	Pawnee City
Wilson, Ida Gillette	A 3, T 3 (S)	Lincoln
Wilson, Ina Mabel	A 4	Lincoln
Wilson, Lucie Mildred	A 4 (S)	Lincoln
Wilson, Nelle Louise	Au	Belvidere
Wilson, Raymond Aylsworth	Mu	Exeter
Wilson, Thurman	E 2	Aurora
Wilson, Verner Thompson	A 2	Columbus
Wilson, Wade Angus	L 2	Lincoln
Wilson, Walter Feasel	A 4, E 2	Lincoln
Wilson, William Holloway	A 2	Raymond
Wiltse, Mary Elizabeth	A 1 (Ex)	Falls City
Wimberly, Arthur Dubose	A 1, CA1	Table Rock
Wimberly, Lowry Charles	A 2, CA 2	Lincoln
Windham, Samuel Campbell	A 1	Plattsmouth
Wingert, Maurine Clevidence	A 2, CA 2 (THS)	Lincoln
Winsor, Alice Pruella	A 1 (S)	Beaver Crossing
Winston, Mary Aileen	A 4 (S)	Ponca
Winstrom, John Harry	A 2	Newman Grove
Winter, Ethel Genevieve	Au	Lincoln
Wirsig, Otto Allen	A 4, T 4	Taylor
Wirt, Florence Mary	A 1	Lincoln
Wirt, Lillian Janette	A 1	Lincoln
Withrow, Taylor Neil	L 1	Central City
Witte, Elmer Fred	A 1	Swanton
Witte, Henry William	A 2	Swanton
Wittie, Ella Cetonia	Au (FA, S)	Lincoln
Wittmann, Elisabeth Marie	G (S)	Lincoln
Wohlford, Charles Jerit	E 4	Rushville
Wolcott, Vella	CA 3	Central City
Wolfanger, Louis Albert	CA 1	Lincoln
Wolfe, Ada	Au (Ex)	Normal
Wolfe, William Luther	Au (Ex, S)	Sioux City
Wolfenbarger, Capitola	G	Bethany
Wolford, Lulu Pearl	CA 2	Lincoln
Wolvington, William Thomas	A 4 (Ex)	Taloban, Leyte, P. I.
Wood, Donald Lester	L 3	Lincoln
Wood, Florence Hester	A 1	Lincoln
Wood, Harold Burroughs	E 1	Aurora

Wood, Ivan Daley	G	Lincoln
Wood, Katharine Charlotte	Au (FA)	University Place
Wood, Leona Marie	A 1	Shadeland, Pa.
Wood, Orien Jerome	A 2	Ohiowa
Wood, Theodore Edward	Eu	Sidney
Woodard, John Albert	G	Havelock
Woods, John Milton	CA 1	Table Rock
Woods, Ruth	CA 4, T 4	Lincoln
Woods, Walter Edward	Lu	Lincoln
Woodward, Joseph Larimer	E 3	Omaha
Woodward, Mildred Maud	A 2 (S)	Lincoln
Woodward, William Warren	A 1	Lincoln
Wooster, Margaret	G (S)	Silver Creek
Workman, Hallie Christine	A 1 (FA)	Auburn
Worthley, Edna Waterman	A 4 (S)	Lincoln
Wren, Everett Westley	Au (S)	Kincaid, Kans.
Wren, John James	CA 2 (S)	Farnam
Wren, Maude Zerelda Combs	Au (FA, S)	Lincoln
Wright, Paul Blaine	G	University Place
Wright, Wilmer LaVern	E 2	Aurora
Wuertz, Alexander John	A 1	Havelock
Wupper, Mary Magdaline	Au (S)	Lincoln
Wyckoff, Edgar S.	A 1 (S)	Springfield
Wyman, Frances Elizabeth	CA 4, T 4 (S)	Lincoln
Wyman, Harriet Minerva	G, A 4, T 4 (FA)	Lincoln
Wyman, Hester Letitia	A 2	Lincoln
Yang, Keung Mook	CA 1	Seoul, Korea
Yates, Paul Emmer	L 3	Lincoln
Yeast, Ruth Anna	Au (FA)	Lincoln
Yeiser, John O., Jr.	A 1 (THS)	Omaha
Yochum, Charles Lewis	A 4, L 1	Talmage
Yochum, Lee Albion	CA 1	Talmage
Yont, Lily	G	Lincoln
Yont, Rose	G (S)	Lincoln
Yost, Arthur Herbert	Au	Lincoln
Yost, Sarah Katherin	A 2	Lincoln
Young, Alexander James	M 3	Omaha
Young, Blaine Augustus	M 4	Malvern, Ia.
Young, Earnest Steven	E 1	Scottsbluff
Young, Florinda	A 1	Macedonia, Ia
Young, Frances	A 2, CA 2	Broken Bow
Young, Gladys Marie	Au (FA)	Chicago, Ill.
Young, Lenora	A 1	Macedonia, Ia
Young, Veva Alice	A 2	Superior
Young, William Bruce	A 1	Stanton
Youngman, Elmer Julius	E 1	Valley
Youngson, May Agnes	A 1	Lincoln
Zeller, Florence Lucile	CA 1	Sioux City
Zethmayr, Gordon John	A 3, T 3	Novelty, Ohio
Zetterman, Harry Leonard	E 2	Shickley

ROSTER OF STUDENTS

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Zimmerman, Sam Clancy.....	L 1.....	Lincoln
Zimmerman, Wana Marie.....	CA 3.....	Lincoln
Zollars, Alvah David.....	A 1.....	Ogallala
Zulauf, Walter Christian.....	A 1.....	Jackson
Zumwinkel, Otto Herman.....	A 3.....	Utica
Zwink, William Alfred.....	A 1.....	Eustis

1913-1914

ROSTER OF STUDENTS IN THE SCHOOLS¹

School of Agriculture, Fine Arts, Music, Pharmacy, Teachers College High School
and Department of University Extension

ABBREVIATIONS

Letters indicate school and figure indicates year.

SA—School of Agriculture; SAs—School of Agriculture, short course; FA—School of Fine Arts; NSA—Nebraska School of Agriculture, Curtis; P—School of Pharmacy; THS—Teachers College High School; Ex—University Extension; u—Unclassed.

Name	School or Department	Home Address
Abbott, Dee L.	SA	Long Island, Kans.
Abbott, Esther	THS	Lincoln
Abbott, Harry Earle	SA	Tecumseh
Abbott, Izalia	THS	Lincoln
Abell, Daisy May	NSA	Curtis
Adams, Claire Alfred	SA	University Place
Adams, Frank Leslie	SA	Mullen
Adams, Harry William	NSA	Curtis
Adams, John Quincy	NSA	Curtis
Adams, Marguerite	NSA	Curtis
Adams, Murial R.	Ex	Bennett
Adams, Perry Oliver	SA	Venus
Aden, Tapka Emily	SA	University Place
Adkins, Nellie Margaret	SA	Lincoln
Aker, Parker Ward	SA	Harvard
Aker, Russell Harland	SA	Harvard
Alback, Chris	SAs	Florence
Albert, Elsie	THS	Normal
Aldrich, John	SA	Lincoln
Alexander, Clevia	FA	Lincoln
Alfreds, Gilbert Leo	SA	Genoa
Allen, Harriet	FA	Lincoln
Allen, Paul Henry	NSA	Maywood
Alles, George E.	(2 y'r) P	Lincoln
Ambrose, Ed	SAs	St. Paul
Ames, Roy Melville	NSA	North Platte
Amos, Leonora	SA	University Place

¹ Immediately preceding this roster appear the names of students registered primarily in the colleges. No name appears on more than one roster. For definition of letters in parentheses, see first roster immediately preceding.

Anderson, Alvord Rosen	SA	Concord
Anderson, Arney Clarence	SAs	Loomis
Anderson, Arthur Ephraim	SA	Newman Grove
Anderson, Cornelius	THS	Lincoln
Anderson, Ivar H.	SA	Concord
Anderson, Mark Frederick	SA	Belgrade
Anderson, Orla Francis	SA	Nemaha
Anderson, Paul Alex	SAs	Bellwood
Anderson, Robert Ernest	SA	Colon
Anderson, Ruthye	THS	Waverly
Anderson, Sten	FA	Lincoln
Appleman, Gladys	THS	Alvo
Arenson, Saul Bryan	(3 y'r) P	Lincoln
Armann, Hazel Roy	SA	Martel
Arnold, Martha May	SA	Inavale
Arnold, Roscoe S.	Ex	Benkelman
Arnott, John Pollock	SAs	Lincoln
Arterburn, Roley W.	SAs	Lincoln
Ashton, Edith Mary	SA	Lincoln
Auch, Willie	SAs	Bennington
Aukes, John	THS	Normal
Baade, Alfred Conrad	SAs	Bennet
Babcock, Richard	THS	Lincoln
Bacon, Fay E.	SA	Crab Orchard
Bagley, Clarence Odell	SA	Lincoln
Baker, Bruce Burgess	NSA	Curtis
Baker, Ethel DeVonne	SA	Laurel
Baker, Floyd Elton	SA	Tilden
Baker, Harvey Henry	SAs	Dunbar
Baker, William Russel	SA	Lincoln
Ball, Della Amelia	NSA	Hemingford
Ballweg, John Leo	SAs	Spalding
Bare, James Blane	SAs	Clearwater
Bartak, Emil Vancil	SAs	Ewing
Barton, Arthur Leonard	SA	Arlington
Baskin, Robert Parvin	NSA	Stapleton
Batty, Ralph Grant	(3 y'r) P	Lincoln
Bauer, Paul	THS	Lincoln
Bauer, Rosina	THS	Lincoln
Baugher, Dexter Leslie	SA	Bucklin, Mo.
Baugous, Vira Louise	Ex	Dakota
Bay, Curtis Eugene	SAs	Havelock
Bay, Ralph Hugh	SAs	Havelock
Bayles, Lucy M.	Ex (S)	Seward
Beach, Irving Judson	SA	Clinton, Mich.
Beck, George Jensen	SAs	Minden
Beemer, Fern Marie	SA	Lincoln
Benham, Thomas Edwin	SA	Lincoln
Benson, Elevia Mary	NSA	Bertrand
Benson, Mabel Victoria	SA	Hordville

ROSTER OF STUDENTS

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Benson, Palmer.....	SA.....	Arcadia
Berkman, Anna Marie.....	SA.....	Lincoln
Berryhill, James Bryan.....	SA.....	Gresham
Bessie, Frank Edmund.....	SA.....	Kearney
Bever, Virgil C.....	SA.....	Lewiston
Biba, Anton.....	SA.....	Exeter
Blaikie, Harold Essex.....	SA.....	Weeping Water
Blank, Roy Francis.....	SA.....	Rising City
Blecker, Marcella Gail.....	NSA.....	Curtis
Boas, Mrs. J. E.....	NSA.....	Curtis
Bock, Anna Marie.....	SA.....	David City
Boettgen, William Jochin.....	SA.....	Florence
Boker, Louise Anna.....	SA.....	Arlington
Bolar, Roy.....	THS.....	Raymond
Boltin, Anneta Heathman.....	Ex.....	Lander, Wyo.
Bone, Rex.....	(2 y'r) P.....	Nebraska City
Booth, Esther Ann.....	SA.....	Sunol
Booth, Fannie J.....	SA.....	Central City
Borg, Roy Conrad.....	SA.....	Oakland
Bowers, Halley.....	THS.....	Lincoln
Boyd, Bessie Florence.....	NSA.....	Curtis
Boyd, Merritt Wesley.....	NSA.....	Curtis
Boyd, Warren Edward.....	SA.....	Juniata
Boyer, Haskle Dennis.....	SA.....	Mullen
Boyer, Verity Cecelia.....	SA.....	Alliance
Brabham, Leroy.....	NSA.....	Wauneta
Brackman, Edward Frederick.....	SA.....	Minatare
Bradley, Frank Richard.....	NSA.....	Curtis
Brainard, Alma.....	THS.....	Normal
Bredehoft, Sophia Lena.....	SA.....	Berlin
Brennemann, Rolf Holly.....	SA.....	Hyannis
Brethouwer, Orville.....	THS.....	Lincoln
Brethouwer, Ruth.....	THS.....	Normal
Brich, Charles John.....	SAs.....	Pender
Brich, Georgia Anna.....	SA.....	Pender
Bricka, Philip Rea.....	SA.....	Lincoln
Briggs, Robert J.....	SA.....	Fremont
Brinklow, George William.....	SA.....	Plattsmouth
Britt, Harriett Edith.....	SA.....	Cedar Bluffs
Brooks, Francis.....	SA.....	Lincoln
Brown, DeLeon.....	SAs.....	Lexington
Brown, Ellen M.....	Ex.....	Dodge
Brown, Nettie Clare.....	THS.....	Flatonia, Tex.
Brunell, Meta Marie.....	SA.....	Bethany
Buchanan, Herbert.....	SAs.....	Douglas
Buchanan, Roy John.....	SAs.....	Douglas
Buford, John Mathew.....	SA.....	Falls City
Bull, Henry Carsten.....	SA.....	Elkhorn
Burbank, Harry Harlan.....	SA.....	Filley
Burgess, Charles Norman.....	SA.....	Omaha

Burke, Philo David	SA	Lincoln
Burkett, Ralph Evert	FA	University Place
Burmester, Louis Lambert	SAs	Lyons
Burr, Voris V.	SA	North Platte
Burris, Waldo Ralph	SA	Elsmere
Burt, Luther Longstreet	SA	Gibbon
Burt, William	SAs	Tobias
Burtch, Archie Dwight	Ex	Lincoln
Burton, Alva Lewis	SA	Bingham
Burton, William McKinley	SA	Bingham
Busch, Herman G.	SA	Steinauer
Bush, Vernon DeVoe	SA	Naponee
Butler, Charles	THS	Lincoln
Butler, Leland	SA	Lincoln
Butler, Ruth Annie	SA	Lincoln
Butler, Sybil	THS	Lincoln
Caldwell, Evelyn	FA (S)	Lincoln
Calkin, Newell Garrison	SA	Syracuse, Kans.
Camo, R. H.	Ex	Benson
Campbell, Alice Minerva	SA	Bethany
Campbell, Angus	SA	Lincoln
Campbell, Franklin Balmot	SA	Central City
Carder, Truman Loyd	SA	Creighton
Carlisle, Bessie	THS	Lincoln
Carlisle, Walter Eugene	SA	Bradshaw
Carlson, Carl	THS	West Lincoln
Carlson, Walter Richard	SA	Ceresco
Carpenter, Erwin Russell	SA	Arden
Carr, Ida Frances	NSA	Curtis
Carr, Luther Ray	SA	Springview
Carr, Roy Olga	SA	Springview
Carver, Frank Alonzo	SA	Cambridge
Chace, Nell	SA	Pilger
Chadderdon, Hardy Darrow	NSA	Stockville
Chamberlain, Leon	THS	Brownville
Chamberlain, Robert Chester	SA	North Platte
Chapman, John C.	SAs	Madison
Chappell, Cleo R.	Ex	North Platte
Chase, Bessie May	NSA	Curtis
Chatfield, Floyd Wade	SA	Rosevale
Chestem, Abner Kenneth	SA	Decatur
Chilcoat, Esther Marie	SA	Stanton
Chittenden, Marguerite	THS	Lincoln
Chrisman, Edna Grace	SA	Lincoln
Christensen, Lauriths Chris	SA	Minden
Churchill, Mrs. Bessie E.	NSA	Curtis
Cizek, Joseph Charles	SA	Prague
Clare, Elmer	Ex	Winnetoon
Clark, Celoma	THS	Lincoln
Clark, Myrtle	THS	Lincoln

ROSTER OF STUDENTS

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Clark, Paul	SAs	Spalding
Clatanoff, Herman John	SAs	Wisner
Clausen, Hilda Maxine	SA	Nebraska City
Coale, Bradbury Bedell	SA	Bennet
Cochran, Byron George	SA	Lincoln
Colbert, Leon	SAs	Stanton
Collier, Phyllis	THS	Lincoln
Collins, Frances Lucretia	NSA	Curtis
Collins, Harold Clifton	NSA	Curtis
Conant, A. Lois	Ex	Garneill, Mont.
Conklin, Mimi Matilda	NSA	Stockville
Conley, Frank Walton	SA	Seward
Cook, Bert William	SAs	Kimball
Cook, Orest Perry	SAs	Elmwood
Cooke, Roy Franklin	SA	Bartlett
Coplen, Clarence Peter	SA	Shickley
Copley, Fred Breakwell	SAs	Inavale
Copley, Joseph Clifton	SA	Bennet
Copsey, Richard	THS	Lincoln
Corby, Robert Stanley	SA	Neligh
Corby, William Arthur	SA	Neligh
Corl, Frank Delmar	SAs	Bridgeport
Cornils, Arnold	SA	Columbus
Cornils, Paul Henry	SA	Columbus
Costelloe, Joe	Ex	Alexandria
Counce, Mark Raymond	SA	Hayes Center
Cover, Naomi	THS	Cozad
Cox, Glenn Jay	SAs	Sutherland
Cox, Joe Herbert	SAs	Newman Grove
Cox, Russell Alexander	SAs	Sutherland
Craig, Ilive	THS	West Lincoln
Crannell, Alvin Andrew	SA	Tekamah
Crawford, Elmer Orion	NSA	Curtis
Cresap, R. D.	Ex	Trenton
Crisp, Agnes Louisa	Ex	Bertrand
Critchfield, Clifton	THS	Fullerton
Critchfield, Wilbur	THS	Fullerton
Cronk, Hazel Irene	NSA	Curtis
Crook, Ralph Edward	SA	Meadow Grove
Cropsey, Harry Thorburn	SA	Lincoln
Cross, John Raymond	SA	Union
Crossgrove, Lynn E.	NSA	Farnam
Crumbliss, Ranza Adrian	SAs	University Place
Cullen, Raleigh Ray	SA	Beatrice
Cummings, Mae Lillian	NSA	Wallace
Curran, Oliver	THS	Lincoln
Dancer, Delia	NSA	Curtis
David, Russell Kirkwood	(2 y'r) P	Crofton
Davis, Archie	THS	Lincoln
Davis, Robert Walter	SA	Lincoln

Day, Carl	SAs	Miller
Deane, Cecil F.	SA	Valparaiso
DeBardeleben, Jamie	THS	Lincoln
Deeds, Ray Delbert	SA	Stromsburg
Deinert, Eugene	THS	Emerald
Delano, Herman	THS	Lincoln
Densburger, Crystal	THS	Lincoln
Deselms, Wayne	SA	Edison
Detrick, Leonard	(2 y'r) P	Upland
Dickson, Fern	SA	Lincoln
Dietel, George Lewis	SAs	Adaton
Dietz, Stacy Taylor	SA	Broken Bow
Diller, Joseph William	Ex	Wilber
Dillman, Blanche	NSA	Curtis
Dillman, Cameron Kohler	NSA	Curtis
Dillman, Harold Arthur	NSA	Curtis
Dixon, Harry M.	SA	Council Bluffs, Ia.
Dolison, Chester	SAs	David City
Donahoo, Harry J.	SA	University Place
Donaldson, Geneva	Ex	Norfolk
Donnelly, Laura	THS	Springfield, S. D.
Dorland, Enid	SA	Bennet
Dort, Edward Nelson	(2 y'r) P	Auburn
Dover, Ralph Edwin	SAs	Madison
Drobny, Ladislav	SA	Comstock
Dudley, Lulu Blanche	SA	University Place
Dugan, Marie Veronica	Ex	Jackson
Dullenty, Myrtle	SA	Lincoln
Dunn, Alvin Lewis	SAs	Dalton
Dunn, Phillip	THS	Lincoln
Dusatko, Ida	THS	Clarkson
Dutcher, Raymond	SAs	Pierce
Dyar, Vern Rollen	SAs	University Place
Dysart, Bessie	THS	Eagle
Dysart, Floyd Eugene	SA	Eagle
Eaton, Elizabeth	THS	Lincoln
Eaton, Lucy	THS	Lincoln
Eaton, Mrs. O. D.	SA	Lincoln
Eichhorn, Fred	SAs	Beatrice
Eisele, Harry	THS	Roca
Eisele, John	THS	Roca
Elfeldt, Lillian Estelle	SA	Lincoln
Elliott, John Beckley	SA	Elmwood
Ellis, Gladys Leola	NSA	Curtis
Elson, Alma Zenobia	NSA	Curtis
Elson, Clarence	NSA	Curtis
Elson, Linden Norton	NSA	Curtis
Engleman, Oliver Milton	SA	Grand Island
Enyeart, Thomas Rose	SA	Hemingford
Eoff, Lee Gerhart	SA	Central City

ROSTER OF STUDENTS

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Erickson, David Ludvig.....	SA.....	Funk
Ernst, Walter.....	THS.....	Lincoln
Eschenburg, Helen.....	SA.....	West Point
Eshelman, Clifford Franklin.....	SA.....	Red Cloud
Essig, Cecil.....	SA.....	Red Cloud
Evans, George Leslie.....	SA.....	Bellevue
Everett, Elsie.....	THS.....	Lincoln
Eyestone, Howard.....	SA.....	University Place
Fagerli, Harry.....	SAs.....	Niobrara
Fahleson, Hilda.....	THS.....	Havelock
Fairley, Ira S.....	SA, SAs.....	Bethany
Farran, Millie Mary.....	SA.....	Lincoln
Faulhaber, Carl Adam.....	SA.....	Brownlee
Faulhaber, Roy Lewis.....	SA.....	Brownlee
Faulhaber, Ruby May.....	SA.....	Brownlee
Fausch, Carl Nathaniel.....	SA.....	Guide Rock
Fausch, Norma Amalie.....	SA.....	Guide Rock
Fawell, Robert.....	SA.....	University Place
Feather, Orin Thomas.....	SA.....	Havelock
Ferguson, George Henry.....	SAs.....	Upton, Wyo.
Ferguson, Robert L.....	SAs.....	Lincoln
Ferris, Lisle William.....	SA.....	Central City
Fink, Charles G.....	SAs.....	Phoenix
Fisher, James.....	SA.....	Elba
Fisher, Wilhelmina.....	THS.....	Rokeby
Fletcher, Floyd Earl.....	(2 y'r) P.....	Kimball
Floyd, Mildred.....	FA.....	Lincoln
Fogg, Eleanor.....	FA.....	Lincoln
von Forell, W. Earl.....	SA.....	Scottsbluff
Fosby, Hal Gustave.....	SAs.....	Clarks
Foster, Guy Ernest.....	SA.....	York
Foster, Alice Lella.....	SA.....	Lincoln
Foster, Porter.....	THS.....	Clarinda, Ia.
Fowler, Frank J.....	(3 y'r) P.....	Lincoln
France, James.....	Ex.....	Gothenburg
Francke, Edmund Fred.....	SA.....	Bennet
Francke, Lester Alexander.....	SAs.....	Walton
Frazeur, Leslie.....	Ex.....	Fort Crook
Frederick, E. L.....	SAs.....	Memphis
French, Bryan Henry.....	SA.....	Page
French, Carl Eugene.....	Ex.....	Trenton
French, Mildred Pearl.....	SA.....	Lincoln
Frisk, Carl John.....	SAs.....	Aurora
From, Guy D.....	SA.....	David City
Frost, Harold Bunnell.....	SA.....	Lincoln
Fruehling, William Ralph.....	Ex.....	South Auburn
Fuerhoff, Harry.....	SAs.....	West Point
Furgason, Loeta.....	THS.....	Lincoln
Galvin, Arnold.....	THS.....	Lincoln
Gamble, Ruth Lucy.....	SA.....	Mead

Ganz, Robert.....	THS.....	Dunbar
Gardner, Mrs. G. R.....	NSA.....	Curtis
Gardner, Herbert Orville.....	NSA.....	Curtis
Gardner, Morris Gilbert.....	NSA.....	Curtis
Gardner, Nettie Pearl.....	NSA.....	Curtis
Gartner, Harry William.....	(2 yr.) P.....	Hastings
Gathman, Walter.....	NSA.....	Rain
Garwood, Rodney Vernon.....	SA.....	Carroll
Geary, Reginald Benjamin.....	SA.....	Inman
Gentry, Annie.....	THS.....	Lincoln
Gerd, Arvid.....	SA.....	Stamford
Gertsch, Gilbert.....	SA.....	Platte Center
Getty, Grace Idella.....	SA.....	Waco
Gieran, Frank Lawrence.....	SAs.....	Wewela, S. D.
Gifford, Lynn Burton.....	Ex.....	Syracuse
Gilbert, Margaret L.....	NSA.....	Curtis
Gilbert, William Connor.....	SA.....	Lincoln
Gilmore, Nettie C.....	Ex.....	Red Oak, Ia.
Ginkens, Ardys Austin.....	NSA.....	Mullen
Gist, Silas Frank.....	SA.....	Falls City
Glebe, Eveline Emily.....	SA.....	Hallam
Glissmann, John.....	SAs.....	Omaha
Goldsmith, Avis Irene.....	SA.....	Lincoln
Gonzales, John Clark.....	SA.....	Elmwood
Good, Raymond Alexander.....	NSA.....	Curtis
Goodell, Walter Ernest.....	SA.....	University Place
Gooden, Judd D.....	SA.....	Hubbell
Gorby, Cecil Amanda.....	Ex.....	University Place
Gorley, Etta.....	NSA.....	Curtis
Gramlich, Barbara Elizabeth.....	SA.....	Ft. Crook
Green, Edna.....	THS.....	Denton
Greenamyre, Irene.....	THS, Ex.....	Cheney
Greenamyre, Ralph.....	SA.....	Cheney
Gregg, Arthur.....	NSA.....	North Platte
Gregg, Robert Mansfield.....	SA.....	Alliance
Greig, Grace Alice.....	SA.....	St. Edward
Gripenstroh, Gustave John.....	SAs.....	Dunbar
Grimes, George E.....	Ex.....	Omaha
Griswold, Jennette.....	SA.....	Lincoln
Griswold, Wallace Newton.....	SA.....	Lincoln
Gruver, Archie Garald.....	SAs.....	Palisade
Guildner, Virgil Ivan.....	SA.....	Grant
Hablitzel, Emil.....	NSA.....	Eustis
Hall, Glenn J.....	SA.....	Ithaca
Hall, Majory.....	SA.....	Alvo
Hall, Sumner B.....	SA.....	Alvo
Halverson, Leroy.....	SA.....	Genoa
Hamilton, Fred Franklin.....	NSA.....	Curtis
Hangartner, Fritz F.....	SA.....	Madison
Hanna, Lloyd Steele.....	SA.....	Lexington

ROSTER OF STUDENTS

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Harm, Alfred William	SA	Bloomfield
Harr, Evan Arthur	SA	Ainsworth
Harr, Wanda May	SA	Ainsworth
Harr, Tim	SA	Lincoln
Harrach, Rosalie	THS	Denton
Harrington, Glea Battell	SA	Bradshaw
Harris, Cecil Cleon	SA	Fairbury
Harris, Ivan Ellsworth	SA	Rising City
Harrison, John Ernest	SA	University Place
Harrison, William H	SA	Dunbar
Hart, Jesse Monroe	NSA	Cozad
Haskell, Riley Kent	SA	Arnold
Haskell, Laura Hazel	SA	Arnold
Hatcher, Eunyce Freedom	NSA	Curtis
Hatcher, Mary E	NSA	Curtis
Haumont, Joseph Anthony	SA	Elton
Headley, Albert Leroy	SAs	Beatrice
Heath, Carl	NSA	Curtis
Heath, Myrtle Edna	NSA	Curtis
Heaton, Henry Culver	NSA	Curtis
Hecht, Alvah Ross	SA	Curtis
Heckelman, Bennett Fred	NSA	Curtis
Heckelman, Emma	NSA	Curtis
Heckelman, Louise Eustina	NSA	Curtis
Hector, Louis Henry	SA	South Auburn
Heeney, Charles Benedict	SAs	Hubbard
Heeney, Raymond William	SA, SAs	Hubbard
Heesch, John J	SA	Nebraska City
Heikes, Claude David	SAs	David City
Heikes, Eugene Vernon	SA	David City
Heist, Ernest Godfrey	Ex	Waverly, Iowa
Heller, Tyndall William	SAs	Davenport
Hendricks, Lola Anna	Ex	Ashland
Henry, Stanley	THS	Swanton
Hensler, Jake	THS	Lincoln
Herbert, Walter	THS	Lincoln
Hess, Willard James	SA	University Place
Heuermann, Bernard Benjamin	SA	Phillips
Heyne, William Henry	SAs	Hooper
Hicks, Victor Lanier	(2 yr.) P	Columbia, Mo.
Higgins, Carrie Kathryn	SA	University Place
Higgins, Frances	THS	Lincoln
Higgins, John Clifford	SA	Nelson
Hill, Howard William	NSA	Curtis
Hill, Muratt John	SA, SAs	Arcadia
Hill, Raymond	SAs	Geneva
Hill, Rose	SA	Culbertson
Hines, Edward Victor	SAs	Morse Bluff
Hite, Ethel Belle	SA	Beatrice
Hoagland, William Weller	SA	Swan

Hoar, Edgar Merritt	SA	Walthill
Hoatson, William	SAs	Hershey
Hoch, Alice Virginia	SA	Lincoln
Hoch, Eva Fern	SA	Lincoln
Hodapp, Mrs. Edward Paul	NSA	Curtis
Hoffstrand, Elise J.	NSA	Curtis
Holbrook, Arthur Claude	SA	Orchard
Holbrook, Harvey J.	SA	Orchard
Holding, Tom Lawrence	SA	Whitney
Hoppler, Ella	THS	Lincoln
Horacek, Ralph James	SA	Belgrade
Horrum, Clara Elsie	SA	Adams
Householder, Fred Bryan	SA	Bladen
Howard, John Joseph	SAs	Hubbard
Howard, Marene Eliza Platz	(2 yr.) P	Lincoln
Howard, Potter Pitts	(2 yr.) P	Lincoln
Hoy, Frances	THS	Lincoln
Hoy, Raymond	THS	Lincoln
Hromas, Emilie	SA	North Bend
Hudson, Josie	THS	Roca
Hudson, Maude	THS	Roca
Huffman, Elwood C.	(2 yr.) P	York
Hughes, Frank De Loss	Ex.	Beatrice
Hultquist, Eugene Farold	SA	Oakland
Humphrey, Donald Read	SAs	Broken Bow
Humphries, Earle Everett	SA	Lincoln
Hunt, Russell Clyde	SA	Bennet
Hurd, Marvin Dewey	SA	Lincoln
Hursey, Rex Lincoln	NSA	Maywood
Hyers, Martha Helen	SA	Lincoln
Ihm, Joseph Marion	SA	Omaha
Ireland, Mildred B.	NSA	Curtis
Irwin, Allen Robert	(3 yr.) P	Genoa
Isaackson, Benjamin Andrew	SAs	Niobrara
Isham, George W.	SA	Lincoln
Ives, Glade	THS	Lincoln
Jack, Chester Leon	Ex.	Eustis
Jackson, Charles Wendell	SA	Lincoln
Jackson, Frank P. Blair	NSA	Maywood
Jackson, George Louis	SA	Litchfield
Jackson, Kent Thomas	SA	Purdum
Jackson, Mary Veda	NSA	Curtis
Jackson, Wilma Kathleen	SA	Lincoln
Jacobs, Arlington Brazil Cole	Ex.	Tekamah
Jacobsen, Ernest	SAs	Tekamah
Jacoby, Julia Lavina	SA	Havelock
Janecek, Edward Adolph	SAs	Wilber
Janecek, Martha	SA	Clarkson
Jay, Roy Henry	SA	Nebraska City
Jaynes, Smith Whitney	SA	University Place

ROSTER OF STUDENTS

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Jenkins, Carroll Caraway	SA	Lincoln
Jenkins, Rebecca Catherine	SA	Havelock
Jensen, Paul	SA	Cozad
Jewell, Susan Grace	Ex	Tabor, Ia.
Joerger, Floyd David	SA	Lincoln
Johnson, Lawrence Marcus	SA	West Point
Johnson, Mathilde	THS	Davey
Johnson, Regnar	SA	Norman
Johnson, Theodore Alvin	SA	Lyons
Johnson, Verna Christina	SA	Stanton
Johnston, John Royal	NSA	Curtis
Jones, Blanch	NSA	Curtis
Jones, Dora Victoria	SA	Marquette
Jones, Roberta	THS	Normal
Jordan, Guy Francis	SAs	Oxford
Jose, Russell Harrison	SA	Lewiston
Joseph, Ruth	THS	Weiser, Idaho
Jurgens, Minnie	SA	Cedar Bluffs
Kafka, Stephen Gus	SAs	Beemer
Kaiser, Lillian Minnie	SA	Lincoln
Kaliff, Frank John	SA	York
Kaliff, Otto Leroy	SA	York
Kallemeyn, Elizabeth Merle	SA	University Place
Kasson, Chester Harold	NSA	Wilsonville
Kavan, Albert Clifford	SA	Lincoln
Kellogg, Gordon Norris	SA	Creighton
Kelley, Fred	SA	Nora
Kennedy, Glenn	THS	Lincoln
Kennedy, John Ross	SA	Page
Kerstein, Edward Ludwig	SAs	Hooper
Kimball, Curtis	THS	Lincoln
King, Barney Herschel	SA	Seward
Kinney, Albert Edward	SA	Elgin
Kinney, Floyd E.	SA	Wymore
Kinney, Ray H.	SA	Elgin
Kirby, Charles Monroe	NSA	Havana
Kirkwood, Grace Margaret	NSA	Curtis
Klasna, Frank	SAs	Groas
Kleine, Arvilla Louise	SA	Lincoln
Klimes, Joseph	SAs	Clarkson
Kline, Tressa M.	NSA	Curtis
Knapp, Raymond	SA	Cedar Bluffs
Knopp, Louie Francis	SAs	Bennet
Knowlton, Floyd Harold	SA	Lincoln
Koerner, Viola Lina	SA	Lincoln
Koester, Anna Christine	SA	Scribner
Kohler, Frank Morrison	SA	Geneva
Koken, Myrle Carmelita	SA	Ruskin
Kollman, Clara	THS	Daykin
Konicek, Joseph Wencelence	SAs	Clarkson

Kouba, Emma	Ex	Verdigre
Kraus, Charles	SAs	Howells
Krebs, Byron J	SA	Scotia
Krivohlavek, Louis	SAs	Dorchester
Kroger, John	SAs	Bennington
Krueger, Alfred William	SA	Steinauer
Kubalek, Emma	SA	Weston
Kurz, Karl Ludwig	SAs	Palmer
LaBounty, Louis Earl	NSA	Moorefield
Lackey, Ben H	SA	Scottsbluff
Ladd, Olive	FA	Lincoln
Lageschulte, Walter	SAs	Randolph
Lancaster, Frank Horace	SA	York
Lane, Lenore	Ex	Doniphan
Lanphere, Leonard Henry	SA	Gresham
Larsen, Charles	SAs	Wolbach
Larson, Frederick George	(2 yr.) P	Harrison
Larson, Raymond John	SA	Normal
Larson, Vernon	THS	Lincoln
Larson, Wauneta	NSA	Curtis
Larson, William George	SA	Hildreth
Lau, Magdalene	THS	Lincoln
Lauridsen, Petra	SA	Mason City
LaVigne, Henry Louie	SAs	Auburn
LaVigne, Peter John	SAs	Auburn
Leavitt, Viola Elizabeth	SA	Lincoln
Lee, Gertrude	THS	Lincoln
Lee, Gladys	THS	Lincoln
Leth, Charles James	NSA	North Platte
Lewis, John W	SA	Big Horn, Wyo.
Lichtenstiger, Doris	THS	Lincoln
Liebers, August Fred	SA	Lincoln
Liebers, Carl Ludwig	SA	Lincoln
Lincoln, Burr	SA	Lincoln
Livingston, John Penton	SAs	Plattsmouth
Lobb, Jason Oswald	SAs	Divide, Wyo.
Lofgren, Hilmer Eldon	SA	West Point
Longstreth, Martha May	SA	University Place
Loseke, Ernest Walter	SA	Columbus
Loseke, Helmeth Gart	SA	Leigh
Loughridge, Olive	SA	Lincoln
Love, Abel James	SAs	University Place
Lovejoy, Perry David	SAs	Inavale
Low, Oscar W	THS	Lincoln
Luhr, George Oliver	SAs	Wisner
Lundeen, Earnest Warren	Ex	Hildreth
McClellan, Hazel	SA	Lincoln
McClintock, Lillian	NSA	Wallace
McConaughy, Lyle B	SA	Stockham
McConnell, Mark	NSA	Hershey

ROSTER OF STUDENTS

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McCorkle, Mela L.....	NSA.....	Curtis
McCorkle, Susie C.....	NSA.....	Curtis
McDonald, Brian.....	THS.....	Lincoln
McGee, James Eugene.....	SA.....	Clearwater
McKinney, Forrest Henry.....	SA.....	Palmer
McMillan, John Gifford.....	Ex.....	Holdrege
McMurray, Harry D.....	(2 yr.) P.....	Manning, Ia.
McNamara, Mary.....	Ex.....	Omaha
McQuaid, Mary Catherine.....	Ex.....	Fairbury
Maahs, Albert William.....	SAs.....	Walton
Magee, Ethel.....	SA.....	Lincoln
Magill, Alice Mary.....	SA.....	Lincoln
Mammen, Fred Edward.....	SA.....	McClelland, Ia.
Manke, Carl.....	THS.....	Malcolm
Manker, Florence.....	FA.....	Lincoln
Mann, Annabell.....	THS.....	Malcolm
Mapes, Carroll DeWitt.....	SA.....	Lincoln
Mapes, Herschel Coventry.....	SA.....	Schuyler
Mark, Arne.....	SA.....	Kenilworth, Ill.
Marrs, Benjamin Floyd.....	SAs.....	Wolbach
Marsh, Earl Crites.....	SA.....	Archer
Marshall, Flora Catherine.....	SA.....	Arlington
Marshall, Crete Ruth.....	SA.....	Arlington
Marshall, Lola Mollie.....	SA.....	Lincoln
Marshall, Ulysses Alvin.....	Ex.....	Gothenburg
Marshall, Victor Vernon.....	SA.....	Arlington
Marshall, Wilbur Benjamin.....	SA.....	Lincoln
Matousek, William Joseph.....	Ex.....	Wood, S. D.
Mawe, Vesta.....	THS.....	Lincoln
Meese, Charles Ogle.....	SA.....	Ithaca
Megee, Bertha.....	THS.....	Lincoln
Megee, Clara.....	THS.....	Lincoln
Mellor, Katheryne Aller.....	SA.....	Lincoln
Merrell, John Clark.....	NSA.....	Maywood
Merrell, Mary Angeline.....	NSA.....	Maywood
Messinger, Ashley.....	NSA.....	Wiggins, Colo.
Meyer, Andrew.....	Ex.....	Dannebrog
Meyer, Henry Louis.....	SAs.....	Roca
Meyers, James W.....	SA.....	Hendley
Meyers, John C.....	SAs.....	Kearney
Meyers, Ruth.....	THS.....	Lincoln
Mieth, Nathalie Anna.....	SA.....	Cairo
Mieth, Otto Herbert.....	SA.....	Cairo
Miles, Maude Alice.....	SA.....	Bethany
Miller, Dennis Lyl.....	SA.....	Alvo
Miller, George Washington.....	SAs.....	Dakota City
Miller, Gerry Woodruf.....	SAs.....	Lincoln
Miller, Hazel Pearl.....	SA.....	Normal
Miller, Jesse B.....	FA.....	Lincoln
Miller, John Haldeman.....	FA.....	Lincoln

Miller, Thomas Fisher, Jr.	Ex.	Ft. Calhoun
Mills, Esther	THS.	Lincoln
Miltner, Fred W.	SA.	Waco
Mintling, Willard Joseph	SA.	Hayes Center
Miska, Wesley	SA.	Ord
Mock, Archie Elden	NSA.	Stockville
Mockett, Earl Wilford	SA.	Lincoln
Mockett, Florence	THS.	Lincoln
Mohr, William Jennings	Ex.	Culbertson
Monette, Raymond Allemand	SA.	Stella
Monnich, Charlotte Margaret Martha	SA.	Hooper
Montgomery, Philip Henry	SA.	Elwood
Montross, Lynn J.	Ex.	Pierce
Moomey, Dean	SA.	Gresham
Moore, Frank E.	SAs.	Stanton
Moore, Gilbert Lockwood	NSA.	Curtis
Moore, Jessie	THS.	Denton
Moore, Oren W.	SA.	Gering
Moore, Paul Edwin	SA.	Tekamah
Morehouse, Clinton Cecil	SA.	Lincoln
Morgan, Laura Ellen	NSA.	Wallace
Morley, Grace	THS.	Lincoln
Morrill, Katharine	FA.	Lincoln
Morris, Jack	SAs.	Wood Lake
Morris, Ruth Amy	SA.	Lincoln
Morris, William Allen	SA.	Norfolk
Moser, Elsie	FA.	Lincoln
Murphy, James Lowell	SA.	Page
Murray, Charles Arthur	SA.	Elwood
Mussetter, Mary	THS.	Roca
Mussetter, Ruth	THS.	Roca
Nahrstedt, Archie Rulla	SAs.	Madison
Nahrstedt, Clarence Albert	SAs.	Madison
Neal, George	THS.	Lincoln
Neal, Orville	Ex.	Clearwater
Nebergall, Opal Iva	SA.	Gresham
Neighbors, Melvin William	SA.	Bayard
Neligh, Charlotte Catherine	SA.	West Point
Nelson, Annie	THS.	Lincoln
Nelson, Arthur William	SAs.	Hebron
Nelson, Harley	SA.	Walnut
Nelson, Joseph Clarence	SA.	Oakland
Nelson, Lloyd Elmer	SA, SAs.	Genoa
Nelson, Martin	SAs.	Fremont
Nelson, Metta Blanche	SA.	Genoa
Nelson, Soren Christian	SAs.	Ruskin
Nelson, Walter Arthur	SA.	Pilger
Newman, Garrett	NSA.	Curtis
Nicholas, Evelyn Loretta	SA.	Stanton
Nicholas, Vern Bryan	SA.	St. Paul

ROSTER OF STUDENTS

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Nicholson, Clyde G.....	SA.....	Omaha
Nicoles, Samuel Miller.....	SA.....	Eau Claire, Wisc.
Noh, Herbert Frederick.....	SA.....	Albion
Noll, Fannie Blanche.....	Ex.....	Lincoln
Nordstrom, Ellen.....	THS.....	Havelock
Nordstrom, Esther.....	THS.....	Havelock
Norton, Olive Elvira.....	SA.....	Lincoln
Nutt, Ruth Mary.....	NSA.....	Curtis
Ohlheiser, Paul.....	SA.....	Lincoln
Ohmstede, Edwin Frederick.....	SA.....	Guide Rock
Orman, Lizzie.....	NSA.....	White
Osborn, Lewis Allen.....	SA.....	Broken Bow
Osborn, Mamie E.....	SA.....	Weston, Ia.
Osterloh, Henry George.....	SAs.....	Hooper
Outhouse, Meroe Jaynes.....	Ex.....	Loup City
Palmer, Fay Floyd.....	SAs.....	Red Cloud
Parker, Faye Louise.....	SA.....	Lincoln
Parmenter, Bernice.....	THS.....	Lincoln
Patterson, George Raymond.....	SA.....	Fairmont
Pay, Esther.....	THS.....	Lincoln
Pay, Ethel.....	THS.....	Lincoln
Payzant, Arthur Robie.....	SA.....	Schuyler
Pearse, Ernest Nathaniel.....	SA.....	Genoa
Pearson, Elmer Ray.....	SAs.....	Brownlee
Pearson, George Virgil.....	SA.....	Brownlee
Pearson, May A.....	SA.....	Brownlee
Pearson, Victor Nels.....	SA.....	Genoa
Peregrine, Ray Arthur.....	SA.....	Fullerton
Perrigo, Charles Arthur.....	Ex.....	Dodge
Perrin, Esther.....	THS.....	Roca
Perrin, Ida.....	THS.....	Roca
Person, A. W.....	Ex.....	Harvard
Pesek, Adolph.....	SA.....	Comstock
Peters, Henry John.....	SA.....	Scribner
Peterson, Alvin Stout.....	SAs.....	Bradshaw
Peterson, Florence Lea.....	SA.....	Arlington
Peterson, Harriett.....	NSA.....	Curtis
Pettis, Donald Lathrop.....	SA.....	Lincoln
Philbin, Joseph Patrick August.....	SA, SAs.....	Spalding
Pierce, Farnk E.....	SA.....	Atlanta
Pillard, William.....	THS.....	Lincoln
Polk, Luvern.....	THS.....	Lincoln
Polk, Marguerite Thecla.....	Ex.....	Lincoln
Pomeroy, Ross.....	SA.....	Allen
Pope, Harry.....	SA.....	Lincoln
Pope, John Albert.....	SA, SAs.....	Silver Creek
Porter, Harold Orman.....	SA.....	Lincoln
Posson, Melancthon Brahan.....	SA.....	Hayes Center
Powell, Gladys Mabel.....	NSA.....	Curtis
Powell, Lewis Fish.....	SA.....	Alliance

Poyar, Frank R.....	SAs.....	Howells
Prahl, Herman Adolf.....	SAs.....	Pierce
Preston, Novia Veatch.....	SA.....	Oakland
Price, Nellie.....	NSA.....	Curtis
Pursel, Edgar Elroy.....	NSA.....	Curtis
Pyle, Garnette Luella.....	NSA.....	Curtis
Raasch, Hugo Walter.....	SA.....	Norfolk
Rail, Hovey Ray.....	SA.....	Birmingham, Ia
Randall, Vida M.....	FA.....	Lincoln
Randall, Winifred Martha.....	SA.....	Bennet
Randel, Elmer Chester.....	SA.....	McCook
Rasmussen, Axcel Andrew.....	SAs.....	Hubbard
Rasmussen, Thorwald William.....	SAs.....	Waterbury
Razee, Ilma.....	NSA.....	Curtis
Ream, L. M.....	SAs.....	Homer
Reed, Frank.....	THS.....	Clarinda, Ia.
Reed, Glen Hobart.....	SA.....	Lincoln
Rees, Frank Thomas.....	SAs.....	Carroll
Rees, Muriel A.....	SA.....	Pilger
Rees, William H.....	SA.....	Carroll
Reeves, Marselleine A.....	THS.....	Lincoln
Reiher, Robert Edward.....	SA.....	Red Cloud
Reitmeyer, Howard Bradley.....	Ex.....	Maquoketa, Ia.
Remy, Pearl Ireland.....	NSA.....	Curtis
Renard, Edward John.....	SA.....	Arlington
Renjilian, Sarkis M.....	SA.....	Antioch, Turkey
Renken, Henry Edward.....	SA.....	Talmage
Rhine, Harold.....	THS.....	Lincoln
Rhode, George Herman.....	SAs.....	Norfolk
Rice, Elizabeth.....	NSA.....	Farnam
Rice, Laura May.....	NSA.....	Farnam
Rice, Nellie.....	NSA.....	Farnam
Rice, Wilbur F.....	SA.....	Clearwater
Richards, Helen.....	SA.....	Lincoln
Richards, Hume Gibson.....	SA.....	Lincoln
Richards, Lilyan Amelia.....	Ex.....	Omaha
Richter, George Benjamin.....	SA.....	Greshman
Riddell, Leo Drummond.....	SAs.....	Springview
Riddell, Evelyn Marguerite.....	NSA.....	Curtis
Riddell, Orville Clinton.....	NSA.....	Curtis
Rikard, Floyd Arthur.....	SA.....	Lincoln
Ring, Gladys Mary.....	SA.....	Cheney
Ring, Joshua Andrew.....	SA.....	Cheney
Ripley, George Henry.....	SA.....	Aladdin, Wyo.
Ritchey, Orville Wayne.....	Ex.....	Cowles
Rivett, Charles Walter.....	SA.....	Bethany
Rivett, Floyd Herbert.....	SA.....	Bethany
Roberts, Faye.....	THS.....	Lincoln
Roberts, Walter Freeman.....	SA.....	Joy
Robertson, Howard Frank.....	SA, SAs.....	Oakland

ROSTER OF STUDENTS

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Robertson, James William	SA	Madison
Robertson, Jessie	Ex	Plattsmouth
Robinson, Ray James	NSA	Curtis
Robinson, William R.	THS	Lincoln
Robotham, Ira B.	SA	Lincoln
Rodgers, John Sheldon	SA	Shannon, Ill.
Rogers, Arthur Ira	SA	Decatur
Rogers, Edmund	THS	Lincoln
Rogers, Guy Franklin	SAs	Randolph
Rogers, Mary Elinor	(2 yr.) P. (S)	McDonald, Kans.
Roggenbach, Charles Gustave	SAs	Wisner
Rohde, William Gustave	SAs	Emerson
Rokahr, Fritz Carl	SA	Venus
Roll, John Hans	SAs	Uehling
Roos, Denver Dunbar	SA	Dunbar
Rosene, Morris Emanuel	SA	Stromsburg
Rosengren, Evedine Luella	SA	Colon
Rouse, Verne Enoch	SA	Grand Island
Rowe, Richard Franklin	SA	Arcadia
Ruenholl, August	SAs	Lorton
Ruliffson, Joseph Harmon	SA	University Place
Rupp, Laurin Everett	SAs	Aurora
Rush, Roma	THS	Lincoln
Russom, Vaughn Walter	SAs	Broken Bow
Rystrom, Raymond Wendell	SA	Stromsburg
Safford, Elizabeth	THS	Lincoln
Salmond, John Raymond	SA	Stockham
Samuelson, Charles Godfrey	(3 yr.) P., THS	Milford
Sanborn, Wayne Walter	SA	Bethany
Sanstedt, Rudolph Marion	SA	Lincoln
Sanstedt, Ruth Viola	SA	Lincoln
Sandstrom, Elsie Isabel	SA	Ceresco
Sandstrom, Lottie Christine	SA	Ceresco
Savage, Warren Curtis	SA	Spalding
Schaeffer, Effie May	NSA	Curtis
Scheer, Otto Carl	SAs	Chapman
Scherer, Elzina Elizabeth	NSA	Curtis
Scherer, Ralph Lipe	NSA	Simla
Schlickbernd, Fred	SAs	Beemer
Schmit, Peter John	SAs	Bellwood
Schopke, Fred Carl	SA	Emerson
Schram, George Henry	SAs	Chaleo
Schrepf, Mary	THS	Lincoln
Schwarz, Henry	THS	Lincoln
Scotfield, John Howard	SA	Lincoln
Scott, Beth B.	NSA	Curtis
Scott, Blanche Faye	SA	Rising City
Scott, Lawrence Irving	SA	Duluth, Minn.
Scott, Leon Evans	SA	Anselmo
Scrimsher, Avery William	SA	Brock

Seabury, Vernon.....	Ex.....	Long Beach, Calif.
Selby, Clifford Rudolph.....	SA.....	Smithfield
Selby, Marion Louella.....	SA.....	Smithfield
Seward, Leon Herbert.....	NSA.....	Wauneta
Shabram, Jesse Leroy.....	SAs.....	Clinton
Shafto, Marvin Cyrus.....	NSA.....	Kearney
Shallenberger, L. B.....	Ex.....	Callaway
Shamp, Lois.....	THS.....	Lincoln
Shaw, Laura Margaret.....	SA.....	Cheney
Shay, Rebecca.....	THS.....	Lincoln
Shebal, Vera.....	THS.....	Lincoln
Shepard, Cecil Carolyn.....	SA.....	Lincoln
Sherwood, Bert.....	SAs.....	Clarks
Shoemaker, William Neth.....	SAs.....	Chapman
Shoppbell, Harry Elmer.....	SA.....	University Place
Shore, Susie Belle.....	SA.....	Lincoln
Shuff, Irene.....	THS.....	Lincoln
Shutt, Carroll Elias.....	SA.....	Lincoln
Segrist, Florence Eleanor.....	SA.....	Ceresco
Siemers, James Ervin.....	SA, SAs.....	Wisner
Sinclair, Hubert D.....	SA.....	College View
Sinclair, Mary Ella.....	SA.....	College View
Sindt, John.....	SA.....	Naponee
Sipp, James.....	SAs.....	Pleasant Dale
Sjogren, Henry Edwin.....	SA.....	Funk
Skinkle, Leota.....	THS.....	Lincoln
Skinner, William Harris.....	NSA.....	Palisade
Slosson, Thomas Warren.....	SA.....	Lincoln
Smith, Faye Ione.....	Ex.....	Cambridge
Smith, Floyd Allen.....	NSA.....	Curtis
Smith, Frank LeRoy.....	Ex.....	Brady
Smith, George Perry.....	SA.....	Lamar
Smith, John R.....	FA.....	University Place
Smith, Lloyd.....	SA.....	Seward
Smith, Mildred Pauline.....	SA.....	Lincoln
Smith, Pynsent Couchman.....	SA.....	Beaver City
Sneddeker, Samuel.....	SA.....	Brule
Snider, Paul Harold.....	SA.....	Kearney
Snodgrass, Wilbur Starr.....	SA.....	Talmage
Snyder, William Bryan.....	SA.....	Mynard
Somers, Josie.....	Ex.....	Roca
Soost, Dora Olive.....	SA.....	Bloomfield
Sorenson, Soren.....	SAs.....	Omaha
Sorrik, George J.....	SAs.....	Howells
Soucek, Frank Robert.....	SAs.....	Verdigre
Soucek, Fred Bedrich.....	SAs.....	Verdigre
Sprague, Lloyd.....	SAs.....	Belgrade
Stalnaker, Percy.....	SA.....	Benson
Stamper, Louis Edmund.....	SA.....	Rushville
Stanley, Harold Belmont.....	SA.....	Riverton

ROSTER OF STUDENTS

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Starr, Elias Franklin	Ex	Grand Island
Stelley, Arthur Frederick	SA	Albion
Stenger, Ernest John	SA	Columbus
Stephenson, Byron	THS	Lincoln
Stephenson, Emma	NSA	Maywood
Steward, Leon Roy	SA	Lincoln
Stewart, Elizabeth Mary	SA	Waco
Stewart, Lloyd Joshua	SA	Valparaiso
Stewart, Mary Elizabeth	NSA	Curtis
Stilson, Henry L	Ex	York
Stinhoff, Roy Franklin	SA	Comstock
Stockdale, William Talbert	Ex	Chadron
Stoddard, Wayne Aldrich	SA	Auburn
Stoll, Erma Gertrude	NSA	Curtis
Stoll, Hazen Iver	NSA	Curtis
Storz, Lena L	FA	Lincoln
Stout, Oscar Charles	SA	Lincoln
Strain, Stella May	SA	Chester
Stratman, William Edward	SA	Springfield
Strode, Josephine	THS	Lincoln
Stroy, Claire	THS	Murdock
Stubbe, Henry	SA	Central City
Sudbeck, August	SA	Hartington
Sullivan, Edward	THS	Lincoln
Sullivan, Edward Allen	SAs	Beemer
Sullivan, Edward Francis	NSA	Wallace
Sullivan, Nellie Marie	NSA	Wallace
Sunderland, Hal Francis	SA	Lincoln
Suska, Emma	NSA	Maywood
Sutton, Anna May	SA	Wahoo
Sutton, Ellen Ely	SA	Wahoo
Swallow, John Mead	FA	Lincoln
Swan, Karl	SA	Crab Orchard
Swanson, Herbert Clarence	NSA	Wallace
Swanson, Lydia Victoria	SA	Aurora
Talbot, Florence Irene	SA	Cheney
Talbot, Guy William	SA	Cheney
Tanner, Clarence Findley	SA	Bethany
Taubenheim, Gus Herman	SAs	Amherst
Taylor, Ardis Helen	NSA	Curtis
Taylor, Grace Ethel	NSA	Curtis
Taylor, Hazel	THS	Denton
Taylor, Neva Lucile	NSA	Curtis
Taylor, Seth	THS	Lincoln
Teleen, Roy L	THS	Ainsworth
Terry, John Edward	SA	Monroe
Therkelson, John	Ex	Lincoln
Thompson, Elizabeth J	NSA	Curtis
Thompson, Guy Landis	(2 y'r) P	West Point
Thompson, Lee William	SA	Lincoln

Thompson, Leroy George	SA	Atkinson
Thompson, Smith Harold	SA	Atkinson
Thomson, Paul John	SA	Florence
Thorne, Jennie	NSA	Curtis
Thorsen, Niels	SA	Gordon
Thorsen, Sophie	SA	Gordon
Thurber, Alleyene Newman	SA	Lincoln
Thurlwell, Vernon	THS	Malcolm
Timm, Otto	SAs	Bennington
Todd, Dwyer Brown	SAs	Murray
Todd, Glenn Roland	SA	Murray
Todd, Harold Ami	SAs	Lincoln
Tolles, Edna	Ex	Tekamah
Tolles, Perry Kenneth	SA	Laurel
Tomlinson, Hazel Ruth	SA	Belgrade
Torbert, Lloyd John	NSA	Curtis
Tordoff, John Edward	SAs	Nebraska City
Torell, Harold Ethiel	SAs	Lincoln
Torstensen, Thora Frieda	SA	Harvard
Tout, Wilson	Ex	North Platte
Tracy, Donald A	SA	Benson
Tracy, Elizabeth	SA	Benson
Trautt, Thomas Joseph	Pu	Lincoln
Trenchard, John William	SA	Cambridge
Trevott, John Elmer	SAs	Emerson
Trevott, Louis	SAs	Emerson
Troester, Otto M	THS	Hampton
Trott, Lee Rollin	SAs	Lincoln
Trott, Marie	SA	Lincoln
Trotter, Lillian Irene	SA	Spalding
Troup, Grace	THS	Lincoln
Turner, Donald Corbin	SAs	University Place
Tyrrell, Leslie Blair	SAs	Pender
Tyrrell, Verne Miles	SAs	Pender
Umberger, Leonard J	SAs	University Place
VanCamp, Vernon	Ex	Winnetoon
Vandertook, Alva	THS	Firth
VanTuyl, Clara	THS	Lincoln
VanTuyl, Nellie	THS	Lincoln
VanWie, Harriett	THS	Waverly
Vifquain, Elmer Victor	SA	Springview
Vincent, Lee Beardsley	SA	Salem, O.
Visek, Rudolph	SA	Comstock
Von Spreckelsen, John Henry	SA	Clay Center
Vorhies, Melvin	THS	Lincoln
Vorse, Robert Bruce	SA	Yutan
Voss, Fred Henry	SA	Lincoln
Voss, Margaret Marie	SA	Lincoln
Wacker, Diedrich Herman	SAs	Pender
Waechter, Carl Godfred	SAs	Walthill

ROSTER OF STUDENTS

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Wager, Vernon Gerald.....	SA.....	Arlington
Walker, Deane Campbell.....	SA.....	Dunbar
Walker, Joy Mortimer.....	SA.....	Dunbar
Walline, Carl Axel Verner.....	SA.....	Funk
Walter, Frances Mattie.....	SA.....	Lincoln
Walter, Lloyd Coffey.....	SA.....	Rising City
Ward, Alfred John.....	NSA.....	Curtis
Ward, Florence Emma.....	NSA.....	Curtis
Ward, Galen.....	SA.....	Litchfield
Ward, George Farris.....	SAs.....	Lincoln
Ward, Joe Culbert.....	NSA.....	Curtis
Ward, Philip.....	THS.....	Litchfield
Ward, Selina Jane.....	NSA.....	Curtis
Warner, George Chester Row.....	SA.....	Waverly
Warp, Oscar.....	SA.....	Minden
Waters, Helen.....	FA.....	Lincoln
Watson, Clarence J.....	SA.....	Lincoln
Watt, Fredrick Stephen.....	Ex.....	Guide Rock
Webb, John Wayne.....	Ex.....	Winnetoon
Weborg, Joseph Frederick.....	SAs.....	Pender
Weekes, Viola Ruth.....	SA.....	Lincoln
Wellensiek, Christoph.....	SAs.....	Syracuse
Wellensiek, Otto Herman.....	SAs.....	Syracuse
Wells, Charles Edward.....	SA.....	College View
Weston, John Waldo.....	SA.....	Beatrice
Westover, Hazel Elizabeth.....	SA.....	Lincoln
Weyant, Romer.....	ThS.....	Lincoln
Wheeler, Addie Louise.....	SA.....	Lincoln
Wheeler, Lee Roy.....	NSA.....	Elwood
White, John Ray.....	SA.....	Lincoln
Whitmore, Alice.....	FA.....	Litchfield
Whitmore, Evangeline.....	THS.....	Lincoln
Whitmore, Ruth K.....	FA.....	Lincoln
Whitmore, Victor.....	THS.....	Lincoln
Wibbels, Richard Elmer.....	SA.....	Arcadia
Wielbelhaus, George F.....	SAs.....	Hartington
Wieland, Arthur.....	SAs.....	Wisner
Wilberger, Gertrude Anna.....	SA.....	Normal
Wilcox, Bessie Amanda.....	SA.....	Cairo
Wilcox, Lemuel Rex.....	SA.....	Arberville
Wilke, Tressa.....	FA.....	Lincoln
Wilkey, Eda.....	THS.....	Smithfield
Wilkey, Esta Inez.....	THS, Ex.....	Smithfield
Willard, Virgil Parkins.....	SA.....	Omaha
Williams, Ashley.....	THS.....	Lincoln
Williams, Rus Edmund.....	SA.....	Guide Rock
Wills, Charles Corbin.....	NSA.....	Wellfleet
Wilmot, Everett Homer.....	SA.....	Wilsonville
Wilson, Clyde Elmen.....	SAs.....	Walton
Wilson, James Ralph.....	SAs.....	Hastings, Ia.

Wilson, John Marion.....	SAs.....	Hastings, Ia.
Wilson, Louis William.....	SA.....	Bethany
Wilson, Lucy Jane.....	SA.....	Douglas
Wilson, Susan Elizabeth.....	SA.....	Lincoln
Winholtz, Ray Abednego.....	(2 y'r) P.....	Kearney
Wintermute, Russell Clark.....	SA.....	Friend
Wiswell, Charles Thyng.....	SA.....	Gresham
Wiswell, Frances Esther.....	SA.....	Gresham
Witt, Reinhold.....	SA.....	Scribner
Wittwer, Clara Louise.....	SA.....	Lincoln
Wolf, Raymond.....	SAs.....	Walthill
Wolfe, Asa Allen.....	Ex.....	Indianola
Wolverton, Dan John.....	SAs.....	Stanton
Wood, Clifford Henry.....	SA, SAs.....	Florence
Wood, Richard Barton.....	SA.....	Council Bluffs, Ia.
Workman, Paul.....	SA.....	Bayard
Worlein, Marguerite May.....	NSA.....	Curtis
Worthman, Arthur Beebe.....	SA.....	Omaha
Worthman, Henry Fred.....	(3 y'r) P.....	Lincoln
Wray, Alex.....	THS.....	Lincoln
Wupper, Irene.....	THS.....	Lincoln
Wyman, Samuel.....	SAs.....	Silver Creek
Young, Daniel William.....	SA.....	Mitchell
Young, Randall.....	SAs.....	Guide Rock
Zauler, Henry Paul.....	SAs.....	North Platte
Zentz, Homer.....	SAs.....	York
Ziegenbein, Frank Ernest.....	SA, SAs.....	Memphis
Ziemann, Norman Paul.....	SA.....	Benson
Ziemer, Harry Herman.....	Ex.....	Hoskins
Zollars, Laurence.....	SA.....	Ogallala
Zurbrick, Walter Edward.....	SA.....	Verdon

1913-1914

SUMMARY OF STUDENTS IN THE COLLEGES

	Men	Women	Total
The Graduate College.....	171	144	315
The College of Arts and Sciences			
Fourth Year.....	106	151	
Third Year.....	105	142	
Second Year.....	125	181	
First Year.....	297	290	
Unclassed.....	59	223	
	692	987	1679
The Teachers College			
Fourth Year.....	9	95	
Third Year.....	7	77	
	16	172	188
The College of Engineering			
Fourth Year.....	55	....
Third Year.....	56	....
Second Year.....	89	....
First Year.....	125	....
Unclassed.....	16	....
	341	....	341
The College of Agriculture			
Fourth Year.....	35	15	
Third Year.....	43	28	
Second Year.....	63	41	
First Year.....	112	82	
Unclassed.....	14	35	
	267	201	468
The College of Law			
Third Year.....	48	....
Second Year.....	57	....
First Year.....	81	1	
Unclassed.....	23	2	
	209	3	212
The College of Medicine			
(In Omaha)			
Fourth Year.....	12	1	
Third Year.....	10	3	
Second Year.....	29	1	
First Year.....	25	3	
Unclassed.....	2	....
(In Lincoln)			
Second Year, Six-Year Combined Course.....	33	....
First Year, Six-Year Combined Course.....	58	....
Unclassed.....	52	....
	221	8	229
Grand Total.....	1917	1515	3432
Deduct for Repeated Names.....	178	179	357
Total Registration.....	1738	1336	3075

1913-1914

SUMMARY OF STUDENTS IN THE SCHOOLS AND IN THE
DEPARTMENT OF UNIVERSITY EXTENSION

	Men	Women	Total
The School of Agriculture			
Six Months Course.....	378	140	
¹ Deduct.....	1	2	
	<hr/> 377	<hr/> 138	515
The School of Agriculture (Short Course)			
Six Weeks Course.....	177	....
¹ Deduct.....	4	....
	<hr/> 173	<hr/>	173
The Nebraska School of Agriculture (Curtis)			
Nine Months Course.....	56	65	121
The School of Fine Arts			
Nine Months Course.....	10	105	
¹ Deduct.....	4	90	
	<hr/> 6	<hr/> 15	21
The School of Pharmacy			
Two Year Course (Nine Months).....	18	2	
Three Year Course (Nine Months).....	6	....
Four Year Course (College Course).....	12	1	
Unclassed.....	1	....
	<hr/> 37	<hr/> 3	
¹ Deduct.....	16	1	
	<hr/> 21	<hr/> 2	23
The Teachers College High School			
Nine Months Course.....	77	94	
¹ Deduct.....	16	8	
	<hr/> 61	<hr/> 86	147
University Extension			
May 1, 1913, to May 1, 1914.....	96	69	
¹ Deduct.....	50	44	
	<hr/> 46	<hr/> 25	71
Grand Total.....	740	331	1071
Deduct for Repeated Names.....	11	2	13
Total Registration.....	729	329	1058

SUMMARY OF STUDENTS

	Men	Women	Total
In Colleges.....	1739	1336	3075
In Schools and University Extension.....	729	329	1058
GRAND TOTAL OF UNREPEATED NAMES.....	2468	1665	4133

¹ The names deducted indicate the students who are registered primarily in one of the Colleges but are also registered in one of the Schools.

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College of Medicine.....	432
School of Pharmacy.....	485
School of Fine Arts.....	503
School of Commerce.....	526
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